CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 19, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

ARKANSAS, OKLAHOMA & TEXAS.—A charter has been granted this company in Arkansas to build a line seven miles long from Montreal, Ark., to a connection with the Choctaw Division of the Rock Island System. The directors are F. Bache, James F. Reed, C. E. Speer, W. J. Echols, T. W. M. Boone, I. A. Ball, R. Gulley, Jr., and C. H. Finley, of Fort Smith, Ark.; and H. Denman and J. B. Hilling, of Midland, Ark. Capital stock is $150,000. F. Bache is Pres.; H. Denman, Vice-Pres.; and R. Gulley, Jr., Secy. and Treas.

BAINBRIDGE NORTHEASTERN. — This company, which is building a railroad from Bainbridge northeast to Pelham, Ga., has filed articles of incorporation in Georgia. The charter calls for a line 70 miles long, traversing the counties of Mitchell, Thomas, Grady and Decatur, and extending through Florida to a point on the Gulf of Mexico. Capital stock, $200,000. Incorporators: E. Swindell, J. Swindell, L. H. Tonge, E. J. Willis, Lee Parker, L. F. Patterson, B. E. Russell, B. B. Bower, Jr., J. C. McCaskill, R. O. Allen, Mitchell James and B. B. Lane, all of Bainbridge, Ga.; May Swindell Deegan and M. Swindel, both of Winnipeg, Man.; R. G. Porter, of Apalachicola, Fla.; G. W. Saxon, of Tallahassee, Fla.; N. F. Mallard, of Swindell, Ga.; M. P. Flint, of Chattanooga, Tenn.; and L. E. Gellerstadt, of Troy, Ala.

BAT CAVE R. R.—This company has been chartered in North Carolina to build a line from Rutherfordton, N. C., to Bat Cave and Chimney Rock, 20 miles. Capital stock authorized, $125,000. The incorporators are T. C. McNeeley, of Marion, S. C.; and W. A. Smith and W. A. Garland, of Hendersonville, N. C.

CACHE VALLEY.—This railroad, which runs from Sedgwick to Light, Ark., twelve miles, has been purchased by a syndicate headed by J. D. Goldman, of St. Louis, Mo. It is stated that the new owners will extend it from Sedgwick to Walnut Ridge or Newport and from Light to Paragould. The new officers are: Pres., J. D. Goldman, St. Louis; First Vice-Pres., Ad Bertig, Paragould, Ark.; Second Vice-Pres., H. A. Culver; Treas., S. C. Dowell; Secy. and Gen. Mgr., G. W. L. Brown; all of Walnut Ridge, Ark.

CHARTIERS RY.—By unanimous vote of the stockholders of the Chartiers Railway Co., the Western Washington R. R. Co. and the Meadow Lands & Zediker R. R. Co., the three companies were merged recently under the name of and control of the Chartiers Ry. Co. The three roads have been controlled and practically owned by the Pennsylvania Lines West of Pittsburg. They are small lines, averaging about ten miles each in length. Edward B. Taylor, Third Vice-Pres. of the Pennsylvania Lines West, who has been made Pres. of the new combination, has announced that the idea was to simplify matters and reduce expenses by allowing one Board of Directors to do what three boards had done in the past.

*CHICAGO SOUTHERN.—Jacob R. Muhlick & Co., 100 East Van Buren St., Chicago, will sublet 100,000 cu. yds. of fine wheeler and grader work near Chicago Heights, Ill., on the Chicago Southern Ry., to good team outfit. Company will pay 18 cts. to 20 cts. a yd.

CHICAGO, BURLINGTON & QUINCY.—A connecting line may be built from Francis, Mo., northwest via Clark, to Macon, on the Hannibal & St. Joseph line, 100 miles. I. P. Weeks, Engr., Lincoln, Neb.

CINCINNATI BELT RY. & TERMINAL.—We are officially advised that this company proposes to build a belt line around Cincinnati, Ohio, to be about 20 miles in length. The American Engineering Co., of Indianapolis, Ind., is in charge of the engineering. No definite steps have yet been taken.

DENVER & GULF.—This company, which was chartered last spring to build a railroad from Denver, Colo., to Snyder, Okla., 500 miles, has filed notice at Guthrie, Okla., of an increase in capital stock from $2,000,000 to $10,000,000. The contract for building 100 miles of the road from Texhoma, Okla., northwest has been let. Robert E. Davis, of Texhoma, is Pres.; James Hicks, Texhoma, is Ch. Engr.

DENVER, NORTHWESTERN & PACIFIC.—A line will be constructed to connect its main line with the Denver & Rio Grande R. R., and surveys are now being made from Sulphur Springs to Minturn, Colo. Connection between the two roads may be made by building from Craig south via Meeker to Rifle, Colo., about 100 miles. H. A. Summer is Ch. Engr., Denver, Colo.

ERIE.—PATTERSON & SHAW, Grant Boulevard, Pittsburg, have been awarded a contract for three miles of new main line for the Erie R. R. at Belfast, N. Y. This is a portion of the Erie's new Genesee River R. R., a cut-off and low-grade line between Cuba and Hunts, N. Y. The work will require about 1,000,000 cu. yds. of excavation.

FAIRMONT & SOUTHERN. — Company has been incorporated in Pennsylvania, with $25,000 capital, to build a line from Belington, W. Va., on the Baltimore & Ohio R. R., the Coal & Coke Ry., and the Western Maryland R. R., north to Pittsburg, Pa., 125 miles. Ralph Overholt, of Pittsburg, and B. F. Overholt, of Scottdale, Pa., are the principal promoters. Pres., Charles E. Conway, of Fairmont; Vice-Pres., Charles F. Teter, of Philippi, W. Va.; Secy., W. H. Conway, of Fairmont; Treas., Samuel A. Moore, of Philippi. The railway will begin near Belington, in Barbour County, and extend along the most practicable survey through the Tygart Valley to the Monongahela River, taking in the cities of Fairmont and Granton, W. Va. From Fairmont the line is to be built into Pittsburg. It is reported that the plans of the company have matured to such a point that operations will be commenced upon construction at an early date.

GULF, PLAINVILLE & NORTHERN.—F. C. Cochran, Audr., Plainville, Kan., states that this proposed road will be 240 miles long, extending from Norton to Anthony, Kan., via Logan, Webster, Plainville, Hays, La Crosse, Larned, Pratt and Harper. The route has been surveyed from Plainville north to Norton, 60 miles, and grading has been completed from Plainville to Hobart, 12 miles. The line from Plainville south to Anthony, 180 miles, is under survey. C. G. Cochran is Pres., Plainville; P. J. Deane, Vice-Pres.; N. F. Shaw, Secy.; J. V. Burroughs, Treas. Headquarters will be at Plainville. Noted on Aug. 22.

ILLINOIS & NORTHWESTERN.—O. P. Chamberlain, Ch. Engr., 184 La Salle St., Chicago, advises us that this company has been incorporated to build from McCook to Lyons, Ill., two miles. Right-of-way has not been secured. Surveys are made. W. E. Phillips, Chicago, is Pres. This is a Chicago & Illinois Western R. R. project. Noted on Aug. 8.

LAKE SHORE & MICHIGAN SOUTHERN.—Contract for grading is reported to have been let to M. C. CONNORS, of Appleton, Wis., at $45,000. The amount of material to be removed is estimated at 280,000 yds., and the work is to be finished by December.

LARIMER & ROUTT COUNTY.—Incorporated in Colorado with a capital stock of $1,000,000 to build a railroad. Incorporators are Isaac Van Horn, M. T. Dickinson, L. W. Thompson, G. M. Colby and E. S. Crawley. Headquarters are at Walden, Colo. It is the object of the company to touch all of the important stock, agricultural and mining points. The road is to start from the terminal point of the proposed Larimer, Hahn's Peak & Pacific R. R. and will stretch southwest, traversing the North Park country and down to the mouth of Grizzly Creek. The directors of the company for the first year are: T. A. Miller, Otto Gramm and E. J. Bell, all of Laramie, Wyo.; G. M. Colby, of Lawrence, Mass.; A. S. Howe, of Medford, Mass.; and E. S. Crawley, of Brookline, Mass.

MARIANNA, BRINKLEY & WESTERN.—G. W. L. Brown, Gen. Mgr., Marianna, Ark., states that surveys have been made for this road from Marianna to Brinkley, Ark., 28 miles, and that contracts for construction will be let soon. Julius Lesser is Pres., St. Louis, Mo. Previously noted.

MONTANA.—Surveys have been made for a railroad from Helena to Kalispell, Mont., via Basin, Rimini, Elliston, Von, Ophir and Helmsville. Marcus L. Hewitt is the promoter, and interested with him are S. L. Fuller, of the firm of Kissel, Kinnicutt & Co., 37 Wall St., New York, and Bartlett Hays, of Tucker, Hays & Co., of Boston, according to the Seattle "Post-Intelligencer."

NORTHWESTERN PACIFIC.—The contract for building the first section of the extension of the Northwestern Pacific from Willits to Eureka, Cal., has been let to the

WESTERN IMPROVEMENT CO., of San Francisco. The work will be rushed, as the first four miles is through the lower end of the Little Lake Valley, and in the winter season is under water. Noted fully on Aug. 15.

NOVA SCOTIA.—The Sable Lumber Co., Liverpool, N. S., will build a six mile line of railway from Lake Wilkins Siding to join Tidney Lake, tapping the Halifax & Southwestern Ry.

OREGON CITY, BEAVER CREEK & MOLALLA.—This company has been formed to build a railroad from Oregon City via Molalla to Soda Springs, Ore. Grant B. Dimick, E. G. Caufield, Thomas F. Ryan, John Adams and J. W. Sherwood, all of Oregon City, are interested.

PRESCOTT, READER & FORDYCE.—W. B. Ferguson, Pres., Little Rock, Ark., states that this road will extend from Prescott to Fordyce, Ark., 75 miles, passing through Lydia, Reader, Lunet and Holly Springs. The road is under construction from Prescott to Reader. Track has been laid from Reader to Lydia, six miles. The line is under survey from Reader to Fordyce, 50 miles. S. C. Bossinger is Ch. Engr., Little Rock, Ark. Noted on Aug. 15.

ROCKWOOD & BAKERSVILLE.—This company, recently incorporated, proposes to build a railroad 25 miles long, from Rockwood via Bakersville to Barronvale, Somerset County, Pennsylvania, and that the location has been completed. Charles F. Hood, Pres., Connellsville, Pa.; S. M. Foust, Ch. Engr., Connellsville; James S. Braddock, Gen. Mgr., Mt. Pleasant, Pa.

ST. LOUIS, BARTLESVILLE & PACIFIC.—F. M. Overlees, Pres., Bartlesville, Ind. T., advises us, under date of Sept. 9, that contracts will be let about Oct. 15 for building this railroad, which is to extend from Joplin, Mo., to Pond Creek, Okla., 229 miles, via Miami and Bartlesville, Ind. T. D. H. Rhodes is Ch. Engr., 213 West Fourth St., Joplin, Mo. Noted last week. Right-of-way and capital are secured and surveys made.

ST. LOUIS, IRON MOUNTAIN & SOUTHERN.—Company proposes to spend from $250,000 to $275,000 for terminal improvements in Little Rock, Ark., of which from $75,000 to $100,000 will be for yards and trackage, it is reported. M. L. Byers is Ch. Engr. M. W., St. Louis, Mo.

SAN JOAQUIN VALLEY WESTERN.—Final surveys are being made and right-of-way is being secured for this road from Fresno to Watsonville, Cal., 140 miles. It is expected to begin construction by Jan. 1. There will be branches to Hanford and to Coalinga, each 40 miles long. C. G. MacBride, of San Jose, Cal., is one of the promoters. Headquarters of the company are in the Crocker Bldg., San Francisco.

SHAWNEE CENTRAL.—The survey of this line from Muskogee, Ind. T., to Childress, Tex., 300 miles, has been completed. Contracts will be let at once. There is to be a branch from Shawnee, Okla., to Tulsa, Ind. T., 80 miles. J. A. Aydelotte is Pres., Granite, Okla. The Shawnee Central was chartered last May with $10,000,000 capital stock, to build 300 miles from Muskogee, Ind. T., via Shawnee to Childress, Tex., with an 80-mile branch line between Shawnee and Tulsa. Dr. W. S. Woods, Pres. of the National Bank of Commerce of Kansas City, Mo., is the chief promoter of the road.

SOUTH & WESTERN.—According to the New York "Commercial," in order to block the construction of the South & Western, about two years ago, the Southern Ry. organized the Johnson City Southern Ry., to parallel it for a distance of more than 100 miles. Then came a contest over right-of-way from Embreeville, Tenn., to Burnsville, N. C., and through the Nola Chucky Gorge, both claiming priority in the location of their line. For months this has seriously impeded the building of the South & Western, the new trunk line from eastern Kentucky to the south Atlantic seaboard, the selection of another route being impossible. Judge Peebles, of North Carolina, has rendered a decision giving the latter the right to build its line, and the advantage, without compensation, for about $100,000 worth of grading done by the Southern Ry.

SULPHUR, COLGATE & SOUTHEASTERN.—It is announced that surveys are being made by this company, organized to build a line from Sulphur, Ind. T., east through Hickory, Pontotoc and Colgate, thence southeast to Paris, Tex., about 150 miles. The Commercial Club of Hickory guarantees a terminal at that place, and residents of Sulphur will pay part of the cost of the survey.

TECOLATE VALLEY.—Construction contracts will be let, we are officially advised, upon the return of W. H. Colburn, Pres., from London. The company proposed to build a line from East Las Vegas, N. Mex., north via Mineral Hill mining district, passing within five miles of Mora, the county seat of Mora County, to Black Lake, thence west to Taos, about 80 miles. All of this, with the exception of 22 miles, will be in the mountainous section, and will necessitate the piercing of a number of tunnels. At Las Vegas the company's shops will be built, and a line is projected from that point south to the Tecolate mining district. Survey has been made for distance of three miles. Right-of-way is obtained. Frank J. Buck is Ch. Engr., Elizabethtown, N. Mex. The offices of the company are at Las Vegas.

TOLEDO JUNCTION.—Incorporated in Ohio to build a railroad at Toledo from Acorn on the Wabash R. R., to Clover, on the Toledo, St. Louis & Western R. R., about eight miles. Capital stock, $100,000. Incorporators: Clem V. Wagner, H. C. A. Ehlert, Ed. C. Snyder, C. F. Ferron and M. I. Brown, all of Toledo, Ohio.

TRANS-CONTINENTAL.—Bids are asked until Sept. 20 by the Commissioners of the Trans-Continental Ry., at Ottawa, Ont., for railway ties to be delivered as follows: 300,000 to be delivered between the junction of the Thunder Bay branch of the G. T. P. Ry. and the Trans-Continental Ry.; 85,000 to be delivered on the siding of the Trans-Continental Ry., near the C. P. R. crossing at Rennie, Man.; 80,000 to be delivered on the line of the Trans-Continental Ry., near the Dundee branch of the C. N. R., St. Boniface, P. E. Ryan, Secy.

UNION CENTRAL.—Incorporated in Texas, with $225,000 capital, to construct a line of railroad from Dallas, Tex., through Kaufman, Henderson, Cherokee, Nacogdoches, Anderson, San Augustine and Sabine Counties to Sabine River, on the line of Louisiana, a distance of 225 miles. The incorporators are: W. J. Hogue, W. R. Stout, W. Sherman Maple, M. C. Gillette, of Dallas; W. H. Marsh, of Tyler; T. B. Poindexter, J. J. Stubbs, of Wortham; J. B. Gordon, Fairfield; H. H. Hyde, Houston, and James A. Lucas, Edgewood. Headquarters are at Dallas.

VIRGINIA AIR LINE.—Walter Washabaugh, Ch. Engr., Charlottesville, Va., advises us that this company proposes to build from Lindsay to Upper Bremo, through Fluvanna County, 30 miles. Surveys are made, right-of-way and capital are secured and contract has been awarded to J. N. H. CORNELL & CO., 29 Broadway, New York. Fifteen miles have been graded and track-laying will begin about Nov. 1. T. O. Troy is Pres., Charlottesville.

WATERLOO, PELLA & SOUTHWESTERN.—E. A. Harris, First Vice-Pres. and Gen. Mgr., Pella, Iowa, states that this proposed road will be 120 miles long, extending from Waterloo to Chariton, Iowa, via Traer, Toledo, Tama, Sheridan, Grinnell, Sully, Pella, Howell, Durham, Attica and Chariton. Survey has been made from Sully to Durham, 25 miles, and the line is under survey from Durham to Chariton, 45 miles. Grading will not begin before next spring. B. F. Keables is Pres. and T. L. Blank, Ch. Engr., both at Pella, Iowa.

WEST END TERMINAL.—An official report from J. H. Hamilton, Secy., 511 Security Bldg., St. Louis, Mo., states that the purpose of this company, chartered some time ago, is to build a steam railroad 60 miles in length from North St. Louis to South St. Louis. J. M. Denning is Pres., Cedar Rapids, Iowa; W. J. Kennedy, Vice-Pres., St. Louis.

ELECTRIC RAILWAYS.

BAR HARBOR, ME.—Robert Amory, Secy. of Bd. of Directors of the Mount Desert Transit Co., 258 Washington St., Boston, advises us that construction contracts may be let this fall for building the proposed line from Ellsworth to Bar Harbor and Southwest Harbor, Me., about 40 miles. Surveys are now in progress. Right-of-way has not been secured yet. John S. Kennedy is Pres., 32 Nassau St., New York. W. E. Baker & Co., 27 William St., New York, are the Engrs.

LOWELL, MASS.—The Boston & Northern St. Ry. Co. may let contracts for building a single-track line from Lowell to Lawrence, via West Andover. W. E. Maloney is Supt. Lowell Division, Lowell, Mass.

NORWICH, CONN.—We are officially advised that the Norwich, Colchester & Hartford Traction Co. was organized on Sept. 9. It will build a line from West Main St., in Norwich, through Colchester, Bozrah, Lebanon, Marlboro and Gastonbury, to Hartford, 38 miles. No further steps have been taken than obtaining subscriptions to capital stock. Costello Lippitt is Pres. and Lucius Brown is Secy., Norwich. George E. Manning is Engr., Yantic, Conn. Noted on July 4 and March 14.

NEW YORK, N. Y.—Bids are asked by James W. Stevenson, Comr. Bridges, until 2 P. M., Sept. 26, for the construction and electrical equipment of the subway station tracks and the electrical equipment of the elevated railway tracks of the Williamsburg (new East River) bridge, over the East River, between Boros. Manhattan and Brooklyn.

BATH, N. Y.—The Bath Electric Service Co. has been organized to construct and operate an electric railway in Bath. Capital, $100,000. Luther H. Leber, Frederick M. Dayton and Arthur A. Lozier are the incorporators.

CANANDAIGUA, N. Y.—At a recent meeting of the stockholders of the Canandaigua Southern Elec. Ry. Co. announcement was made that plans for extending the road from Atlanta to Wayland, N. Y., and thence to Hornell by way of the Pittsburg, Shawmut & Northern R. R., are under consideration. If the plans are carried out this railroad, which is now operated by steam, will be converted for electrical operation. Application for a franchise in Wayland was made some time ago, but later withdrawn on account of the opposition of the Rochester, Corning & Elmira Traction Co., which already has a franchise in that village. It is stated that with the revival of the proposed extension proposition another application will be made in Wayland. George H. Switzer, of Bath, N. Y., is Pres.; Hyatt C. Hatch, Secy., Atlanta; Treas., D. H. Maxfield, of Naples; Attorney, F. D. Hamlin, 59 Wall St., New York; George H. Hamlin, Gooding Packard and Alexander Davidson, of Canandaigua. As noted on Aug. 29, the New York State Board of Railroad Commissioners has consented to the issuance of a $2,000,000 mortgage by the Canandaigua Southern Electric R. R. Co. This company is planning to build an electric street surface railroad between Canandaigua, Ontario County, and Atlanta, Steuben County. The company has also filed with the board certificates of extension to build from Atlanta to Wayland, Steuben County, 6¾ miles; from Atlanta to Lake Salubria, near Bath, Steuben County, 21½ miles, and from Canandaigua to Palmyra, 14 miles.

PITTSBURG, PA.—The Pittsburg Railways Co. has completed plans for an extension of its interurban system from Finleyville to Bentleyville, Washington County, and thence to Waynesburg, it is reported. Routes were surveyed from Finleyville, Monongahela and Charleroi, but the first mentioned was considered the most feasible. F. Uhlenhaut, Jr., 435 Sixth Ave., is the Engr.

YORK, PA.—The Philadelphia "Record" states that with the merger of the electric railway companies in this county in view, the York & Wrightsville Elec. Ry Co. has filed notice of an increase of its stock from $66,000 to $3,397,000. The trolley companies to be included in the merger, which will be made Sept. 25 at offices in Camden, N. J., are the York St. Ry., York & Dover Elec. Ry., York & Dallastown Elec Ry., York & Wrightsville Elec. Ry., Red Lion & Windsor St. Ry., York Haven St. Ry., and the York & Hanover St. Ry. The consolidation will be termed the York Railways Co. Aside from the completion of the York & Hanover line, it is at present proposed to extend a line into Harrisburg and double deck the Pennsylvania R. R. bridge at Columbia to provide a connecting link with Lancaster County. The stock limit of the company is $6,000,000. Preferred stock will be issued for the first time to the amount of $1,000,000. W. F. Bay Stewart is Pres. and Joseph E. Wayne is Gen. Supt., York.

BALTIMORE, MD.—The Roberts & Abbott Co., Engrs., Cleveland, Ohio, advise us that the Washington, Baltimore & Annapolis Elec. Ry. Co. will be in operation about Nov. 1. Geo. T. Bishop, Cleveland, is Pres. J. N. Shannahan is Gen. Mgr., Maryland Trust Bldg., Baltimore. Noted on July 18.

W. A. House, Pres. of the United Railways & Electric Co., Baltimore, has announced that after a careful investigation it has been decided to abandon for the present the project of extending the York road line from Towson through Lutherville and Cockeysville to Timonium. The territory is already adequately served by the Northern Central Ry. (steam), and it is not considered that the population is sufficient to make an additional line a paying venture. The line was surveyed over a year ago. C. O. Vandevauter is Ch. Engr.

MORGANTOWN, W. VA.—George C. Sturgiss, of Morgantown, Treas. of the Sabraton St. Ry. Co., is promoting a plan for building a traction system from the Fairmount region in West Virginia to the Connellsville coke region in Pennsylvania, it is reported, by way of the Monongahela River to Point Marion and thence to Connellsville. Work on the line to Point Marion will start at once.

ASHEVILLE, N. C.—The Asheville Rapid Transit Co. may let contracts soon for building 2½ miles of track in this city. Company may also arrange for amusement devices to be installed for use next season. C. E. Van Bibber is Gen Mgr.

SHREVEPORT, LA.—S. A. Guy, who proposes to build a new street railway in Shreveport, is quoted as saying that he will start work on his plans in October.

MEMPHIS, TENN.—The Memphis Light & Traction Co. has applied to the city for a franchise and proposes to build a line in new South Memphis and adjacent territory. K. D. McKellar represents the company. Noted on Aug. 15.

MANSFIELD, OHIO.—The Delaware, Mt. Gilead & Mansfield Elec. Ry. has been organized to build a line connecting the towns named in its title. The officers are as follows: Pres., J. A. Shoemaker, Delaware; Vice-Pres., S. P. Gage, Mt. Gilead; Secy., A. H. Breese, Mt. Gilead; Treas., Lewis Slack, Delaware. A favorable report has been made.

MARQUETTE, MICH.—J. W. Barber, Secy. of the Marquette, Negaunee & Ishpeming Interurban Ry Co., Schofield Bldg., Cleveland, Ohio, informs us that the Roberts & Abbott Co., Cleveland, are Engrs. for the project. The railroad will connect the cities named in company's title, and will be about 14 miles in length. The LAKE SUPERIOR RAILWAY CONSTRUCTION CO. will be the contractors, under the supervision of the Engineers. Construction will be started next spring. Surveys are partly made, and right-of-way is being secured. Motive power has not been decided upon. L. M. Sigler is Pres., Cleveland. Noted on May 23.

EAST ALTON, ILL.—W. Rudsill, of Bunker Hill, Ill., has applied to the Village Board of East Alton for a franchise for a street railway through that town. He states the projected line will run from Bunker Hill through Bethalto, Oil City and East Alton to Alton, a distance of 20 miles. The board will consider the matter.

NAUVOO, ILL.—The Mississippi Valley Electric Railway Co. has let contract to T. E. LUTTGERDING, Eldorado, Kan., for 45 miles of grading approximately 300,000 cu. yds. Field office, Nauvoo, Ill. T. R. Smith, Prin. Asst. Engr., 1034 Rookery Bldg., Chicago. Noted on May 23.

QUINCY, ILL.—The City Council has adopted an ordinance giving a 50-year franchise to the St. Louis, Terre Haute & Quincy Traction Co.

EMMETSBURG, IOWA.—Announcement is made that the Spirit Lake, Emmetsburg & Fort Dodge Ry. Co. has completed its organization by filing articles of incorporation with the Secretary of State. Emmetsburg is made the principal place of business. Capital stock, $20,000. The company organizes for the purpose of building an interurban railway from Des Moines through Emmetsburg to Spirit Lake, or to some point on the Okoboji Lakes. It is stated that through trains will be run between Des Moines and Spirit Lake over the line of the Fort Dodge, Des Moines & Southern R. R. Co. and the line of the new company. The distance between Des Moines and Spirit Lake is about 190 miles. The company has a corps of engineers at work on the survey from Fort Dodge. About seven miles north of Fort Dodge a bridge will be constructed across the Des Moines River. The company may erect a dam across the river at this point, and utilize water power. From this point the proposed route runs in a northwesterly direction to Pocahontas, thence north to Emmetsburg, and thence west and north to Spirit Lake. J. L. Blake, Boone, Iowa, is Gen. Mgr. of the Fort Dodge, Des Moines & Southern R. R. Co.

ALBIA, IOWA.—A meeting has been held by interested citizens of this place to consider a proposed extension to Hilmar, Iowa, of the interurban line entering the city from the south. The line will cost about $60,000.

BLAINE, MONT.—George R. Vidden, of Dillon, Mont., has completed surveys for a proposed electric railway from Black Springs to the Eastern & Pacific mines, which, if built in a direct line, will be [illegible] miles long. If built by way of Virginia City the distance will be twelve miles.

JOPLIN, MO.—The Joplin & Pittsburg Railway Co. has been incorporated with authorized capital of $5,000,000 and authorized bond issue of equal amount. Thus far $2,800,000 in bonds and a like amount in stock have been issued. Company has bought and paid for the Pittsburg Railway & Light Co., of Pittsburg, Kan., and the Joplin & Pittsburg Street Railway Co., of Joplin, Mo. It is now grading and laying track for an air line between the two places named and will make several side extensions, or altogether about 85 miles will be built. Joseph J. Heim, of Kansas City, is Pres.; W. W. Calhoun, of Carthage, Mo., is Vice-Pres.; John A. Prescott, of Kansas City, is Secy. and Treas.; D. L. Robinson, of Buffalo, N. Y., is Asst. Secy. and Treasurer, and R. E. Richardson, of Kansas City, is Ch. Engr. Headquarters are at 310 First National Bank Bldg., Kansas City, Mo. Noted on Aug. 15.

EXCELSIOR SPRINGS, MO.—S. S. McIntire, Secy. of the St. Joseph, Excelsior Springs & Lexington Railway Co., states that this line will be six miles long, from Excelsior Springs to Vibbard, including laterals. Date for receiving bids for construction not yet fixed. Edgar Main is Engr. Dr. G. P. Lingenfelter is Pres.; A. M. Bates is Vice-Pres., and C. D. Wale is Treas. Noted last week.

LITTLE ROCK, ARK.—We are officially advised that W. H. Waugh, Ch. Engr. of the Shenango Traction Co., Greenville, Pa., has been appointed Ch. Engr. of the Little Rock & Pine Bluff Traction Co., of Little Rock. Mr. Waugh is still retained by the Shenango Traction Co. as Consult. Engr. Company is now locating 50 miles of line and expects to advertise for bids about Oct. 1. Noted last week.

FORT WORTH, TEX.—The final surveys for the Fort Worth & Mineral Wells Interurban Ry. have been started by engineers representing the AMERICAN ENGINEERING CO., of Indianapolis, Ind., which has been awarded the contract for the construction of the line. It is stated that stock to the amount of $200,000 has been subscribed. J. W. Beardsley, of Mineral Wells, is Pres.

NEW WESTMINSTER, B. C.—James Milne, Gen. Supt. of the British Columbia Elec. Ry. Co., Ltd., Vancouver, B. C., advises us that the motive power to be used in the New Westminster-Chilliwack line, which will be entirely of new construction, will be electricity. It will be a standard-gage line, using 70-lb. rails, approximately 60 miles long. Three surveys have been made, but the final route for two-thirds of the distance has not yet been selected. The railway will be built through a very fertile country. All capital necessary for the construction of the work has been secured. Work on 20 miles of line has already been commenced by company's forces, but it is probable that company will let the balance of the work by contract. Noted on Sept. 5.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

SHARON, VT.—The Sharon Power Co., organized to erect an electric plant for lighting, heating and power, at Sharon, has filed articles of association in the office of Secretary of State at Montpelier. The capital stock of the company is $50,000.

PITTSFORD, VT.—It is reported that surveys are being made in the vicinity of Furnace Brook for the Vermont Marble Co. The company proposes to develop the water power of this stream and build a power house on the site east of the Pittsford Mills. The plan is to use steel tubing between the reservoir and the power house.

AMESBURY, MASS.—The Hamilton Woolen Co. has accepted the bid of the M. B. FOSTER ELECTRIC CO., 54 Batterymarch, Boston, for erecting an electric lighting plant. John O. DeWolf & Co. are Engrs., 159 Devonshire St., Boston.

NORWICH, CONN.—The NEW ENGLAND ENGINEERING CO., Union St., New London, has been awarded the contract for the installation of the high-tension transmission line, 22,000 volts, from Scotland Station on the Shetucket River to the present municipal plant in this city, for $25,000.

NEW YORK, N. Y.—Bids were received as follows, Sept. 14, at the Bureau of Yards and Docks, Navy Dept., Washington, for furnishing 15 motor-generator sets and accessories, at the Navy Yard, New York: Westinghouse Electric Co., Continental Trust Bldg., Baltimore, $62,995; Western Electric Co., 463 West St., New York, $84,480; General Electric Co., Schenectady, N. Y., $61,510, $52,560.

NEW YORK, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., Sept. 26, for construction and electrical equipment of the subway station tracks and the electrical equipment of the elevated railway tracks of the Williamsburg (new East River) Bridge, over the East River, between the Boros. of Manhattan and Brooklyn.

MORRISTOWN, N. J.—The Board of Directors of the Morris & Somerset Electric Co., it is stated, will let contracts for the construction of the company's electric lighting plant immediately. The plant will cost about $200,000.

ROYER, PA.—A company in which C. A. Patterson, Martinsburg, Pa., is interested, will build a plant, 30x50 ft., at Royer, Blair County, to furnish light and power to Williamsburg, Martinsburg and Royer, Pa. Frank W. More, Indiana, Pa., is Engr.

LANGHORNE, PA.—Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, have prepared plans for a 1-story power house, to be built at Langhorne, for C. J. Matthews & Co. The building will be constructed of brick, with slag roof, open plumbing, cement flooring and electric light fixtures.

OXFORD, MD.—The Oxford Ice & Electric Co. has awarded contract to R. H. POLLARS CO., Baltimore, Md., it is stated, for the erection of electric-light and 10-ton ice plant. In addition to contract in which the Oxford company has agreed with town to place 50 cluster shade lights of 100 c. p. at intersection of streets, the Pollars company is under contract to erect plant with sufficient power to furnish 600 lights of 16 c. p. for lighting stores and dwellings. T. K. MacKenzie, representing the Pollars company, is in Oxford supervising construction work. About $25,000 will be expended for building and machinery. Penniman & Fairley, 411 Marine Bank Building, Baltimore, Md., are Engrs.

BALTIMORE, MD.—The following bids were opened by the Municipal Board of Awards on Sept. 4 for the city's new street gas and naphtha lamp contracts. The Consolidated Gas, Electric Light & Power Co., Continental Trust Bldg., offered to supply the gas at $7.25 per lamp per annum, based on a consumption of 10,000 cu. ft. of gas per lamp each year, with a charge of 72½ cts. per 1,000 ft. for all excess consumption. The company also offered to supply gas for lighting the municipal buildings at 85 cts. per 1,000 cu. ft. The bidders for the contract for equipping, maintaining, lighting and extinguishing the gas lamps were as follows: Moses Newton, $8.97½ per lamp per annum if given the contract for five years, or 1-yr. contract, $10.31 per lamp per annum; two years, $10; three years, $9.24. The American Street Lighting Co. (bids being on one year, two years, three years or five years, respectively), $10.85 per lamp per annum, $10.85, $10.65, and $10.65. The Welsbach Co., $12, $11.75, $11.50, and $11. The American Street Lighting Co. and Moses Newton offered to take full charge of the lamps and furnish the gas at the following rates, one, two, three and five years, respectively: The American Co., $22.85 per lamp per annum, $22.85, $22.50 and $22.50. Moses Newton, $23.30, $23, $22.24, and $21.97½. Noted Aug. 29.

MANASSAS, VA.—Bids are asked by O. E. Newman, People's National Bank, until Sept. 28, for the construction of an electric light plant.

MONBO, N. C.—The management of the Turner Mills Co., Box 175, Statesville, N. C., has awarded contract to ORDWAY & SONS CO., of Winston-Salem, N. C., at about $35,000 for construction of concrete dam to develop power for transmission by electricity.

BUFFALO COVE, N. C.—Long Island Cotton Mills, Osborne Brown, Pres., Long Island, N. C., will construct dam to develop water power and build electric plant to transmit electricity for power to operate cotton mill. The cost is estimated at $30,000. The company will develop 500 HP. at first, 1,000 HP. being available for future use.

UNION, S. C.—The Commission of Public Works intends to improve the electric light service of this city, according to press reports. It is the intention of the commission to buy a generator with twice the capacity of the present one. It is also probable that the arc lights on various streets will be improved soon and the old carbon lights be exchanged for the enclosed lights, such as are used now in the business parts of the town.

JACKSONVILLE, FLA.—The following bids were opened Sept. 4 by the Bond Trustees for furnishing 200 more street arc lights and other electrical appliances: The Westinghouse Electric & Mfg. Co., Westinghouse Bldg., Pittsburg, Pa., lights, etc., as per specifications, for $9,900; General Electric Co., of Schenectady, N. Y., $8,755.

DOTHAN, ALA.—We are officialy advised that a power plant to cost $200,000 is proposed by A. J. Smith, 87 North Foster St., Dothan. The location now being surveyed is 17 miles away from this city. Mr. Smith is preparing estimates of cost of dam, waterwheels, electrical machinery, poles and wire, capable of generating about 3,000 HP. As soon as estimates are complete a company will be organized.

HATTIESBURG, MISS.—We are officially advised that bids will be asked for in about 30 days for constructing a power station for the Hattiesburg Traction, Gas & Electric Light Co., to cost $175,000. B. L. Jakeway, Hattiesburg, is Gen. Mgr. The Huston Engineering Co., Macheca Bldg., New Orleans, La., is preparing plans.

MEMPHIS, TENN.—The Lighting Committee of the Lower Board is considering the proposition of installing a municipal lighting system. J. S. Dunscomb is Chn.

CORBIN, KY.—It is reported that the Cumberland Gas Co., of Barboursville, Ky., will construct a natural gas system here.

CRAWFORDSVILLE, IND.—Bids are asked by the Commissioners of Montgomery County until Oct. 5 for construction and equipment of a lighting plant at the County Asylum. B. F. Carmon is County Audr.

KOKOMO, IND.—The Kokomo, Marion & Western Traction Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for a duplicate of the 1,000-KW. turbine and alternator now installed, with turbo jet condensing system complete. The unit is wound for 60 cycles, two phase, 2,300 volts. The second unit will furnish electricity for lighting and railway service. P. H. Palmer is Electrical Engr., Kokomo.

CLAY CITY, IND.—A franchise and contract for lighting the city have been awarded to B. M. GUIRL, of Clay City. J. H. Bence is City Clerk.

ESCANABA, MICH.—The Escanaba Electric Power & Pulp Co. is reported to be making plans to erect a plant on the site of the old Flat Rock Mill on the Escanaba River.

CHICAGO, ILL.—Bids are asked by William Carroll, City Electrician, 12 City Hall, until 11 a. m., Sept. 20, for furnishing the Department of Electricity with approximately 125 miles of No. 6 B. & S. copper-lined wire.

DECATUR, ILL.—Press reports state that the Decatur Ry. & Light Co. intends to erect a gas plant, with building two stories high, 60 x 150 ft., and situated west of the present plant on East Wood St. Plans and specifications will be completed soon. W. L. Powers is Engr.

SUPERIOR, WIS.—The City Council has decided to let contract to the SUPERIOR WATER, LIGHT & POWER CO. for street lighting. The contract is for one year, with an option to lengthen it to five years. The question of building a municipal electric light plant has been abandoned for the present. B. F. Ellison, Superior, is Mgr.

GUTHRIE CENTER, IOWA.—The Guthrie Center Electric Light Co. is preparing plans for increasing the capacity of the plant this fall. C. T. Harney is Mgr.

GARNETT, KAN.—JOSEPH CAREY, Garnett, has secured a 20-yr. contract to construct and maintain electric light plant.

LEAD, S. DAK.—The Montezuma Gold Mining Co., of Lead, expects to build a hydroelectric plant on Rapid Creek, Pennington County. The method of developing power will include the impulse type of water wheel and the amount of power to be generated is 690 HP. Estimated cost, $100,000. L. D. Ballor, Lead, is the secretary of the company.

ST. LOUIS, MO.—Bids are asked until Sept. 20 by the Board of Public Improvement for furnishing and installing the following equipment in the Quarantine Hospital: Two engines; two generators; steam-heating system, together with certain steam fixtures and appliances; boilers, boiler furnaces, smoke connections, chimneys, etc. Andrew J. O'Reilly is Pres. Bd.

HALLETT, OKLA.—The Hallett Pipe Line Htg. & Lighting Co., of Fayetteville, Ark., will install about 42,000 ft. of 4-in. casing for gas plant, 28,000 ft. of 2-in. pipe, and 3,000 ft. 6-in. pipe, for a low-pressure gas plant. A. F. Wolf is Pres.; Alva Duncan, Parsons, Kan., is Ch. Engr.

GLENWOOD SPRINGS COLO.—It is reported that the Central Colorado Power Co. is planning the construction of a tunnel twelve miles long at the Shoshone plant near Glenwood Springs. Two miles of the tunnel will be constructed first and will generate 10,000 HP., but ultimately an additional ten miles will be built, which, when completed, will treble the capacity of the plant. There are now three plants under way, and it is understood that additional plants are being considered by the company.

DENVER, COLO.—It is probable that an advertisement will be issued by the Bureau of Yards and Docks, Navy Yard, Washington, D. C., calling for bids for the erection of a power plant and machinery building at New Fort Lyon, Colo. The building will be constructed of brick and steel.

SEATTLE, WASH.—The Lamp and Lighting Committee of the City Council has granted the Seattle-Tacoma Power Co. an extension of three years in time to place its wires underground in the downtown section of the city. The underground system will cost the company $400,000 and is to be completed by Jan. 1, 1912. O. D. Calvin is Mgr., Seattle.

The Board of Public Works on Aug. 24 approved the plans and specifications for the cluster lamps that have been ordered installed by the City Council in the downtown district. It is reported that bids for the installation will be received by the Board of Public Works in about three weeks, the cost of which is estimated at about $175,000.

CENTRALIA, WASH.—Bids are asked until Sept. 24 for furnishing the city with electric current for lighting and power purposes. S. A. D. Eaton is City Clerk.

ST. JOHNS, ORE.—S. F. Davidson, of St. Johns, has purchased site in this city for a gas plant to be erected by the St. Johns Gas, Heating & Lighting Co., of which he is President. Plant will cost $35,000, and construction will be commenced at once.

SAN DIEGO, CAL.—Plans are being made to electrify the Colorado Railroad, a steam line, between the ferry and Tent City. William Clayton, Vice-Pres., has charge of the work.

UKIAH, CAL.—A company is to be organized in Ukiah for the purpose of installing a gas plant here. It is estimated the machinery will cost about $15,000 and piping about $5,000. The buildings and other essentials would bring the capitalization up to about $30,000. The plant will have a capacity of 20,000 cu. ft.

KENORA, ONT.—Kenora is taking estimates on a new arc light system, and it is probable that one will be installed this fall. The proposal is to install a 75-light system at a cost of about $4,000. An electric pump may be installed at the water-works pumping station. It is proposed to install a pump with a capacity of 1,000,000 gals. a day.

BATTLEFORD, SASK.—The contract for installation of an electric power plant at Battleford has been awarded to the JAMES STUART ELECTRIC CO., of Winnipeg.

CALGARY, ALTA.—The site at the Horse Shoe Falls, Calgary, is being surveyed by Alexander & Budd, and it is expected that the buildings for the light and power plant will be commenced in a short time.

CATALLA, ALASKA.—It is reported that contracts will be let soon for construction of an electric plant at Catalla, to generate 1,500 HP.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

CLAREMONT, N. H.—THE UNITED CONSTRUCTION CO., 467 Broadway, Albany, N. Y., has been awarded contract for constructing steel bridge across Connecticut River, at $21,804. The contract for erecting abutments and piers has been secured by DOUGLASS & STEVENS, for $18,000.

BARNSTABLE, MASS.—The following bids were received Aug. 26 for constructing a bridge across Bass River at Barnstable: Berlin Construction Co., $31,500; Baltimore Bridge Co., Bush St. and B. & O. R. R., Baltimore, $31,200; John F. Gill Co., superstructure, $22,840; New Jersey-West Virginia Bridge Co., superstructure, $15,400; Canton Bridge Co., Canton, Ohio, superstructure, $13,500.

NEW YORK, N. Y.—The Department of Bridges, James W. Stevenson, Comr., has awarded contract for constructing the steel and masonry approach, Borough of Queens, for the Blackwell's Island Bridge, over East River to the MARYLAND STEEL CO., 71 Broadway, New York, for $758,600. The following bids were also received Sept. 5: Richard E. Henningham, 1 Madison Ave., New York, $914,170; Williams Engineering Co., 13-21 Park Row, New York, $809,345; Buckley Realty & Construction Co., 156 Fifth Ave., New York, $797,804.

RENSSELAER, N. Y.—Plans are being considered for constructing viaduct over the New York Central & Hudson River R. R. and the Boston & Albany R. R. tracks at Third Ave. Estimated cost, $180,000. John R. Sullivan is Pres., Chamber of Commerce.

RYE, N. Y.—Bids are being received by the Board of Village Trustees for constructing three steel and concrete bridges. Charles S. Towle, 7 East 42d St., New York, is Village Engr.

RAHWAY, N. J.—The Bridge Commission of the Union County Board of Freeholders has awarded contract for constructing bridge over the Robinson branch of Rahway River, near Rahway, to ARTHUR E. SMITH, of Plainfield, N. J., for $10,445.

LANCASTER, PA.—Bids are asked until Sept. 30 by the Board of County Commissioners, for constructing stone twin-arch or reinforced concrete bridge across Hammer Creek on line between Warwick and Elizabeth Township. M. G. Schaeffer is County Compt.

POINT MARION, PA.—Bids are asked by the County Commissioners at Uniontown until noon, Sept. 28, for constructing 3-span steel bridge at Point Marion, over Cheat River. M. E. Townsend is Chn.; Ash F. Williams is Clk.

CAMBRIDGE, MD.—Bids are asked by the Board of County Commissioners, W. C. Anderson, Clk., until noon, Sept. 24, for constructing wooden pile bridge across Slaughter Creek. The bridge will be 1,123 ft. in length, 14 ft. wide, with 74-ft. draw.

HUNTINGTON, W. VA.—A viaduct will be constructed at the American Car & Foundry crossing. Estimated cost, $16,000. J. H. Sanborn is City Engr.

VICKSBURG, MISS.—The date for receiving bids for constructing two reinforced concrete bridges has been extended to Oct. 7. H. J. Trowbridge is City Clk. Walter G. Kirkpatrick, of Jackson, Miss., is Engr.

CHATTANOOGA, TENN.—The lowest bid received Sept. 5 for constructing the Ringold bridge was submitted by the Converse Bridge Co., of Chattanooga, at $4,817. E. E. Betts is Engr.

MEMPHIS, TENN.—Bids will soon be asked for constructing concrete bridge over Bayou Gayoso at Madison Ave. J. H. Weatherford is City Engr.

ATHENS, OHIO.—Bids are asked by the Board of County Commissioners until noon, Sept. 28, for construction of bridge.

JEFFERSON, OHIO.—Bids are asked by the Board of County Commissioners until 1 p. m., Oct. 2, for constructing reinforced concrete bridge in Hartsgrove Township. J. S. Matson is County Surv.

BELLEFONTAINE, OHIO.—Bids are asked by the Board of County Commissioners until 1 p. m., Oct. 14, for constructing 67-ft. steel span bridge, on concrete abutments, with 40-ft. roadway. Charles M. Richey is County Surv.

CRAWFORDSVILLE, IND.—Bids are asked by B. F. Carman, County Audr., until 10 a. m., Oct. 5, for constructing two concrete arch bridges, one in Madison and other in Repley Township.

DELPHI, IND.—Bids are asked by the Board of County Commissioners until noon, Oct. 8, for constructing steel bridge and abutments over Rock Creek. Fred. Engle is County Audr.

SALEM, IND.—Bids are asked until 1.30 p. m., Oct. 7, by S. G. Ellis, County Audr., for construction of steel bridge and stone abutments near Old Pekin.

BAY CITY, MICH.—Bids are asked by the Bay County Bridge Commission until Sept. 23 for constructing approach to Belinda St. bridge. The work includes about 50,000 cu. yds. embankment.

MUSKEGON, MICH.—The Board of County Supervisors is considering the question of issuing bonds amounting to $8,000 for constructing bridge across Muskegon River at Maple Island.

ROCK ISLAND, ILL.—All bids received for constructing highway bridge over Sears Canal have been rejected. New bids will soon be asked.

MORRISON, IOWA.—TOM KEELY, of this city, has been awarded contract for erecting 32-ft. steel and concrete bridge at Morrison.

DAVENPORT, IOWA.—The City Council has awarded contract to the CLINTON BRIDGE & IRON CO. for constructing steel bridge across Sears Canal, for $7,640.

INDEPENDENCE, MO.—The MIDLAND BRIDGE CO., Gibraltar Bldg., Kansas City, Mo., has been awarded contract for constructing two steel bridges, 14 and 24-ft., for Jackson County. Oscar Koehler, Independence, is County Surv.

WARRENSBURG, MO.—The County Court has awarded contract to the MIDLAND BRIDGE CO., Kansas City, Mo., for erecting 27 steel bridges for $14,747.

VAN BUREN, ARK.—The Bridge Commissioners have awarded contract for construction of bridge across Lee's Creek to the ILLINOIS STEEL BRIDGE CO., of Jacksonville, Ill., at $4,600.

SHERMAN, TEX.—Bids are being received for constructing 75-ft. steel bridge with 16-ft. roadway. C. E. Craycroft is Mayor.

DENVER, COLO.—Bids are asked until noon Sept. 27, by T. W. Jaycox, Engr., for constructing 80-ft. steel bridge and approaches.

AUBURN, WASH.—The contract for construction of Green River bridge, 3½ miles east of Auburn, has been let by the County Commissioners to the INTERNATIONAL CONSTRUCTION CO., for $7,241.

HOQUIAM, WASH.—The County Commissioners have awarded contract for constructing bridge to R. C. TURNER for $4,372.

SPRINGFIELD, ORE.—The Eugene & Eastern Ry. Co. has let contract to L. N. RONEY for constructing bridge across Willamette River near Springfield for about $30,000.

SACRAMENTO, CAL.—The Northern Electric Co. will build highway bridge over Sacramento River.

PORT DANIEL, QUE.—Bids will soon be asked by the Atlantic, Quebec & Western Ry. Co. for constructing bridges between Port Daniel and Gaspe Basin.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—C. B. H. MACOMBER & CO., 16 State St., have the contract for the erection of a brick and stone office building, at 60 Congress St., for the Congress Street Associates. Cost, $500,000. Andrews, Jacques & Rantoul, 50 Congress St., are Archs.

WATERBURY, CONN.—The contract for a depot to be erected in Waterbury has been awarded by the New York, New Haven & Hartford R. R. Co. to HORTON & HEMINGWAY, 633 Atlantic Ave., Boston, who will begin work as soon as possible, the land having been secured. The railroad company will expend $200,000 in building the station. McKim, Mead & White, 150 Fifth Ave., New York, are Archs. It will be one year before it will be ready for occupancy. E. E. Pratt, Jr., New Haven, Conn., is Superv. of Bldgs.

NEW YORK, N. Y.—W. H. McElfatrick, Arch., 1402 Broadway, advises us that plans have been filed and contracts will be let for a fireproof theater to be built at Greenpoint, Brooklyn. The building will be owned by the Orpheum Co., Percy G. Williams, Pres., 1133 Broadway, New York.

Lord & Hewlett, 345 Fifth Ave., New York, have completed plans for the 4-story brick Masonic Temple, 95 x 95 ft., for the Brooklyn Masonic Guild, 615 Fulton St., to be erected on the corner of Lafayette and Clermont Aves., to cost $300,000. A. R. WHITNEY, JR., & CO., 135 Broadway, are the general contractors.

NEW YORK, N. Y.—Bids are asked until 9.45 a. m., Sept. 25, by the Board of Health, for alterations and repairs to the department building, corner of 55th St. and Sixth Ave., Boro. of Manhattan. Thomas Darlington, M. D., is Pres.

Bids are asked by the Park Board, Moses Herrman, Pres., until 3 p. m., Sept. 26, for erection and completion of an addition to the Metropolitan Museum of Art, to be known as the Library Wing (addition G), located in Central Park, on the west side of Fifth Ave.

*ALBANY, N. Y.—Bids were received by the State Lunacy Commission on Sept. 11 for dining-room and kitchen addition to Chronic building, including construction, heating, plumbing, electric light wiring and fixtures and feeder cables, at the Binghamton State Hospital, Binghamton, N. Y., the propositions being as follows: (a) For entire work; (b) amount to be deducted in case certain miscellaneous work is omitted; in case extra foundation work is required below depth shown; (c) for Portland cement concrete, per cu. ft.; (d) for rubble stone work, per cu. ft.; (e) for brick work, per cu. ft.; (f) working days. The bids were: Mosier & Summers, 1266 Seneca St., Buffalo, N. Y., (a) $61,591, (b) $4,500, (c) 30 cts., (d) 25 cts., (e) 45 cts., (f) 200 days; R. T. Ford Co., Rochester, N. Y., (a) $58,000, (b) $8,100, (c) 40 cts., (d) 50 cts., (e) 60 cts., (f) 250 days; M. Stitt Construction Co., Scranton, Pa., (a) $56,474, (b) $3,000, (c) 25 cts., (d) 25 cts., (e) 32 cts., (f) 300 days. T. E. McGarr is Secy. of Comn.; George L. Heins is State Arch.

BUFFALO, N. Y.—Bids were received as follows Sept. 16 at the office of James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., for construction of the U. S. marine hospital building at Buffalo, N. Y.: Henry Shenk, Erie, Pa., $147,346; 10 months. H. Probst, New York, N. Y., $149,700; April 1, 1909. Mosier & Summers, 1266 Seneca St., Buffalo, N. Y., $137,900; June 1, 1909. Charles McCaul Co., 10 North Eleventh St., Philadelphia, $152,324; 400 working days.

An addition to the St. Joseph's Institute at 2064 Main St. is to be erected by the Institute of the Sisters of St. Joseph, according to plans filed with the Bureau of Buildings. It will be a 3-story, brick, fireproof structure, and will be used for boarding and day school purposes. Bids are to be asked soon, it is reported, and contracts will be let so that work can be begun this fall. The building will cost $125,000.

POUGHKEEPSIE, N. Y.—Bids are asked by Percival M. Lloyd, Arch., 39 Market St., until Sept. 25, for constructing an 8-story fireproof apartment house to be known as Scott's Chambers.

NEWARK, N. J.—P. Charles, Arch., 612 Union Bldg., Newark, is receiving estimates on a 12-story office building, 108 × 119 ft., to be erected at Clinton and Beaver Sts., for the Union Building Co., Union Bldg. Estimated cost, $400,000.

NEW CASTLE, PA.—W. G. Eckles, Lawrence Trust Bldg., New Castle, has been retained to prepare plans for a 3-story and basement high school building for the Board of Education. Cost, $250,000.

PITTSBURG, PA.—Bids were received as follows Sept. 16 at the office of James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., for the construction of the U. S. marine hospital building at Pittsburg, Pa.: Charles W. McCaul, 10 North Eleventh St., Philadelphia, $134,141; 400 working days. Cramp & Co., Commonwealth Bldg., Philadelphia, $124,800. Noel Construction Co., German and Calvert Sts., Baltimore; twelve months. Wm. Kerr's Sons, Lewis Bldg., Pittsburg, $139,600. A. & S. Wilson Co., 541 Third Ave., Pittsburg, $145,694; Jan. 1, 1909. Henry Shenk Co., Erie, Pa., $123,000; ten months. Nicola Bldg. Co., Farmers' Bank Bldg., Pittsburg, $177,324; 600 working days. William Miller & Sons Co., 23 Federal St., Pittsburg, $140,000. Time of completion, unless otherwise stated, July 31, 1909.

WILMINGTON, DEL. — The Lyceum Theater Co. of this city, controlled by George A. Nicolai, Dudley McAdow, of New York, and Frank Burt, of Cleveland, is to erect a theater at a cost of $150,000 on a lot 109 × 115 ft.

Harry Bothmann, proprietor of the Clayton House, is contemplating erection of a hotel in this city to cost $250,000. The hotel, according to the proposed plans, will be six stories in height and will contain sleeping apartments for 200 people.

RICHMOND, VA.—Plans for the high school building, which are now in course of preparation, will be filed with the Building Inspector soon. The structure will cost about $300,000. The high school will occupy a block bounded by Clay, Marshall, Eighth and Ninth Sts.

FORT McPHERSON, GA.—We are officially advised that the Constructing Quartermaster at Fort McPherson will soon advertise for bids for constructing a brick stable for 76 animals and a frame wagon shed. William A. Hansell, Jr., Atlanta, Ga., is Engr.

JACKSONVILLE, FLA.—Handy & Cady, Archs., 172 Washington St., Chicago, Ill., has prepared plans for an office building about to be built on Forsyth St., Jacksonville, Fla., for C. Buchanan, Jacksonville. It will be eight stories, 85 × 32 ft., brick, steel and reinforced concrete, with hardwood finish, steam heat, electric light, marble and tile work, and cost $200,000. HENRY GREEN, Jacksonville, has the general contract. The F. W. LAMB CO., 250 Kinzie St., Chicago, has the heating contract.

MOBILE, ALA.—Press reports state that the Louisville & Nashville R. R. Co. will erect a depot at Mobile to cost $150,000. Plans will be ready in about 60 days. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

NEW ORLEANS, LA.—We are officially advised that bids will be received about Oct. 15 for constructing an 11-story fireproof terra cotta and pressed brick hotel, 100 × 120 ft., to cost $500,000. A Monteleone is owner; Toledano & Wogan, Macheca Bldg., New Orleans, are Archs.

*HAMILTON, OHIO.—Bids are asked until Sept. 27, by Conners Bros. Co., 157 Plain St., Lowell, Mass., for sub-contracts for constructing post-office at Hamilton.

CINCINNATI, OHIO.—Willis Kennedy, Bldg. Inspector, has granted a building permit for the proposed Hughes high school building. The building will have a frontage of 420 ft. on McMillan St. and 425 ft. on Clifton Ave., occupying the entire block and extending back to Guy St. The school is to cost $600,000 and will contain a basement, three stories and a tower of three stories. In the basement will be various working rooms and shops, running track and gymnasium. On the first floor will be an assembly hall containing 1,030 seats, offices and lecture rooms. The balcony of the assembly hall will be on the second floor. It will contain 534 seats. There will also be a library, twenty recitation rooms and two study halls on the second floor. On the third floor there will be two laboratories, lecture rooms and the main room for bookkeeping, stenography and recitations. Each of the three stories in the tower will be occupied as a club room 40 × 42 ft. Toilet and lockers will be installed on each floor and in the basement. The assembly hall will be in the center and will be the full height of the building. The style of architecture will be Gothic. The building will be constructed of pressed brick and terra cotta, with stone trimmings.

Bids are asked until Sept. 24, by Harry Hake, Arch., Union Trust Bldg., for constructing a 15-story building at Seventh and Vine Sts. by the Providence Savings Bank & Trust Co. The main floor will be used for banking only. The dimensions of the building are 93 ft. 10¼ ins. on Vine St. and 94 ft. 5¾ ins. on Seventh St. The entrance to the banking room and the one to the elevator will be on Vine St., the latter at the south end with a vestibule 18 ft. square. There will be five elevators speeded to run 600 ft. a minute. The building will contain about 327 offices. In the construction of the building about 1,650 tons of structural steel will be used, which is to be made absolutely fireproof. The first story will be of granite, 25 ft. in height, and the remainder of the exterior will be of pressed brick. The interior finish will be chiefly of white Italian marble and the office partitions of hardwoods. Estimated cost, $250,000.

YOUNGSTOWN, OHIO.—Bids are asked until Oct. 15 by the County Auditor for constructing a 4-story granite court-house, 237 × 136 ft., for Mahoning County. Estimated cost, $1,000,000. Owsley & Boucherle, Wick Bank Bldg., are Archs.

QUINCY, ILL.—Bids are asked until 10 a. m., Sept. 21, at the Home for Soldiers, Quincy, Ill., for construction of two cottages, each to be two stories high, 40 × 250 ft., built of press brick and plaster. Cost, $110,000. W. Carlys Zimmerman, 17 East Van Buren St., Chicago, Ill., is State Arch.

BELOIT, WIS.—J. C. Llewellyn, 1516 First National Bank Bldg., Chicago, awarded general contract to J. P. CULLEN, Janesville, Wis., for constructing a school building at Beloit. Cost, $132,000.

DULUTH, MINN.—Plans are being prepared for a court-house to be erected at the corner of First and Fourth Ave. As soon as plans have been approved by the commissioners contract will be let. An appropriation of $700,000 has been provided to cover cost of court-house.

MINNEAPOLIS, MINN.—Long & Long, 830 Hennepin Ave., are preparing plans and will receive bids next spring for a 15-story store and office building, 44 × 152 ft., on First Ave., between Fifth and Sixth Sts., for J. E. Andrus, Andrus Bldg. Terra cotta, structural iron and steel work will be used in construction, with skylight, fireproofing, plate glass, marble and tile floors, steam heat, gravel roofing and plumbing. Cost, $200,000.

ST. LOUIS, MO.—The plans for the new St. Louis post-office have been completed, and have been approved by James Knox Taylor, Superv. Arch., Washington, D. C. The building will occupy all the ground space of the lot acquired at 18th St. and Clark Ave.

St. Anthony's Church, Rev. T. Magnien, Pastor, will erect a building, 151 × 225 ft., constructed of stone, terra cotta, etc., to cost $250,000. Plans are being prepared by Brotha Adrian.

ST. LOUIS, MO.—E. Ross Chamblin, Arch., Holland Bldg., has prepared plans for a 3-story apartment building, 120 × 225 ft., to be built at Clara and Delmar Aves., for G. C. Goodlett and others, 1005 Chestnut St. Construction will be of brick, terra cotta, Carthage stone and reinforced concrete, with architectural iron work, galvanized iron and copper cornice and skylight, fireproofing, marble, mosaic and tile work, composition roof, gas and electric fixtures, mantels and plumbing. Estimated cost, $150,000. Bids will be received by owner.

Plans are being prepared by H. F. Roach, Syndicate Trust Bldg., for a 1-story mercantile building, 53 × 105 ft., to be erected at Tenth and Olive Sts., for the Concord Investment Co., 812 Olive St. Brick, steel and terra cotta, architectural and structural iron and steel work will be used in construction. Cost, $250,000.

Eames & Young, Wright Bldg, have completed plans for a 2-story brick, stone and terra cotta coliseum, at Washington and Jefferson Aves., for the St. Louis Coliseum Co. Estimated cost, $500,000.

EXCELSIOR SPRINGS, MO.—Louis G. Curtis, Arch., 1112 McGee St., Kansas City, has plans ready for figures for a 4-story hotel for the Elms Realty Co., Excelsior Springs. Cost, $225,000.

ST. JOSEPH, MO.—E. J. Eckel, Commercial Bank Bldg., St. Joseph, and Eames & Young, Chestnut and Seventh Sts., St. Louis, Archs., have let the general contract to the SELDEN BRICK CONSTRUCTION CO., St. Louis, for a 6-story hotel building for the Buchanan Hotel Co., Milton J. Tootle, Jr., Pres. Cost, $300,000.

FORT SMITH, ARK.—We are officially advised that the MANHATTAN CONSTRUCTION CO., 76 William St., New York, has general contract for construction of a 6-story hotel for the Fort Smith Hotel Co., to be known as the Sebastian. This contract does not include the plumbing, heating, elevators, hardware or glass. Inquiries are now out for the structural steel and iron; there will be approximately 500,000 lbs. in the building. The Kahn system of reinforced floor slabs has been adopted. Sound and fireproof partition material will be used, but the contract has not been let. Building will be 135 × 120 ft. The bids received were: W. F. May & Co., Ft. Smith, $155,000; H. M. Fielding & Co., Guthrie, Okla., $203,000; T. W. Hackett, St. Louis, Mo., $199,895; Urban Construction Co., Broad and College Sts., Rosedale, Kansas City, Mo., $188,606; Hugh McLennan, Chicago, Ill., $188,000; Manhattan Construction Co., New York, N. Y., $187,500; Jefferson Construction Co., North Peter and Louisa Sts., New Orleans, La., $179,949; J. M. Ewen Co., The Rookery, Chicago, Ill., $217,000. Herbert E. Hewitt, Arcade Bldg., Peoria, Ill., is Arch. C. D. Mowen, Fort Smith, is Secy.

HOUSTON, TEX.—The County Commissioners have adopted a resolution authorizing the County Judge and George Horton, County Engr., to receive competitive plans until Nov. 5 for a court-house of granite and brick, four stories high. Estimated cost, $500,000.

TACOMA, WASH.—We are officially advised that the Y. M. C. A. will erect a building here, to cost about $150,000. It will be 70 × 72 ft., six stories high, constructed of stone, brick and concrete. There will be a gymnasium, four stories, 48 × 125 ft., and shower baths, bowling alleys, etc. G. W. Bullard and I. H. Hill, Provident Bldg., Tacoma, are Archs. Bids will be received in October.

SPOKANE, WASH.—A permit has been issued to Kemp & Herbert for the construction of their proposed 4-story brick building on the corner of Washington St. and Main Ave., to cost $150,000.

OAKLAND, CAL.—It is stated that the Claremont Hotel Association will erect a hotel here to cost about $130,000. Dr. H. G. Thomas is Pres.

BOISE, IDAHO.—Wayland & Fennell, Sonna Bldg., are preparing plans for a 3-story court-house and jail, 80 × 200 ft., for Ada County. Cost, $500,000.

MONTREAL, QUE.—Bids are asked until Sept. 24, by Fred Gelinas, Secy. Dept. of Public Works, Ottawa, Ont., or C. Desjardins, Clerk of Works, post-office, Montreal, for constructing an addition to the post-office here.

BORDEAUX, QUE.—On Sept. 5 bids for construction of a jail at Bordeaux, a few miles from Montreal, were opened at the Government offices. Contract was awarded to J. B. PAUZE & CO., 70 St. James St., Montreal, whose bid, amounting to $790,000, being the lowest, was recommended for acceptance. Each bid provided for the construction of the building in either Laurentian or Stanstead granite. A quantity of concrete will be used in the building. The four bids considered, with the amounts, were as follows: J. B. Pauze & Co., $790,000; Martineau & Prenoveau, Atwater Ave, Montreal, $799,395; the Laurin Construction Co., $873,955; C. E. Deakin, $893,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

DUNKIRK, N. Y.—The Water Board has decided to build addition to the water and electric light plant. L. N. Murray is City Clerk.

NEW YORK, N. Y.—The following bids were received Aug. 29 by the Dept. of Parks, Moses Herrman, Pres., for furnishing, delivering and laying c.-i. water pipe and appurtenances in the Harlem River Driveway between 155th and 177th Sts.: Atlanta Contracting Co., $23,810; Thos. Crimmins Contracting Co., 444 East 69th St., New York, $32,195; Wm. H. Masterson, Washington Ave. and 187th St., New York, $19,777; The Wilton Construction Co., $23,125.

HARRISON (Newark post-office), N. J.—Bids are asked until Oct. 1 by the Water Commission of the Common Council for furnishing material and laying water main in portion of Franklin Ave. B. P. Walsh is Town Clerk.

SUMMIT, N. J.—Bids are asked until Sept. 25 by the Board of Trustees for drilling well about 1,600 ft. in depth. Jas. Johnstone is village clerk.

LEWISTOWN, PA.—The Reedsville Water Co. will construct 1,000,000-gallon reservoir, 150 × 80 ft.

WILMINGTON, DEL.—Bids are asked until 1:30 p. m., Sept. 30, by T. A. Leisen, Ch. Engr. Water Dept. for construction of covered slow sand filters consisting of six beds and covered filtered water reservoir with capacity of 10,000,000 gallons.

*Ft. DU PONT (Delaware City post-office), DEL.—Bids are asked by Capt. J. L. Knowlton, Const. Q. M., until 11 a. m., Oct. 10, for reconstructing sewerage and water-works system and constructing 150,000-gallon tank at Ft. Du Pont.

NORFOLK, VA.—Bids were received as follows Sept. 14 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing 100,000-gallon elevated steel tank with suspended 15,000-gallon steel tank and tower, at the Norfolk Navy Yard: Camden Iron Works, Camden, N. J., Item (1), both tanks, $20,000; Tippett & Wood, Phillipsburg, N. J., Item (1), $9,450; R. D. Cole Mfg Co., Newman, Ga. (1), $13,154; (2), 100,000-gallon tank only, with provision for attaching 15,000-gallon tank, $11,667; (3), same, without such provision, $10,923. Midland Bridge Co., Kansas City, Mo., (1), $12,500; Pittsburg Industrial Iron Works, Pittsburg, (1), $10,994; (2), $10,354; (3), $10,291; R. B. Tufts, Atlanta, Ga., (2), $9,500; Belmont Iron Works, Washington, Ave. and 22d St., Philadelphia, (1) $13,677.

UNION, W. VA.—A water-works system will be constructed. Estimated cost, $5,500. A. S. Johnston is Mayor.

KINGWOOD, W. VA.—The Kingwood Water and Transit Co. will install water-works system.

ELKINS, W. VA.—Bids are asked until Sept. 25 for constructing 1,000,000-gallon reservoir, 4,500 ft. water mains, suction pipe and intake gravity mains, and also for installing pumps and boilers. George Henry is City Clerk. Penniman & Fairley, 411 Marine Bank Bldg., Baltimore, Md., are Engrs.

FT. CASWELL (Southport post-office), N. C.—Bids are asked until Oct. 9 by L. Cravens, Q. M., for constructing pump house, ice plant and cold storage at this post.

BENNETTSVILLE, S. C.—A water-works system will probably be installed.

FT. OGLETHORPE (Dodge post-office), GA.—Bids are asked until 11 A. M., Sept. 21, by Capt. E. D. Anderson, Q. M., for constructing deep well and water system at Government Target Range, Cartoosa Springs, Ga.

JACKSON, GA.—The Council contemplates extending the water-works system. Estimated cost, $10,000.

ATLANTA, GA.—Bids are asked until Oct. 23 by the Board of Water Commissioners, Park Woodward, Gen Mgr., for furnishing and erecting sectional washing pressure filter plant, to consist of eight units, each unit eight ft. indiameter, and 20 ft. long.

PENSACOLA, FLA.—Bids were received as follows at the Bureau of Yards and Docks, Washington, D. C., Sept. 14, for constructing 100,000-gallon elevated steel tank with suspended 15,000-gallon steel tank and tower for the Pensacola Navy Yard: Camden Iron Works, Camden, N. J., $21,000; Tippett & Wood, Phillipsburg, N. J., $10,120; without small tank, $9,390; R. D. Cole Mfg. Co., Newnan, Ga., $10,700; Midland Bridge Co., Kansas City, Mo., $10,900; Chicago Bridge & Iron Co., 1058 Throop St., Chicago, $10,500; Pittsburg Industrial Iron Works, Pittsburg, $9,487; R. B. Tufts, Atlanta, Ga., $9,500.

SLOCOMB, ALA.—Bids [illegible] being received for constructing water-w[illegible]. Estimated cost, $15,000.

FLORALA, ALA.—J. M. [illegible]RARY & CO., Atlanta, Ga., have been aw[illegible]ed contract at $16,958 to construct wa[illegible]orks system. The work includes erection [illegible] 100-ft. water tower and tank, with capa[illegible] of 50,000 gallons; pumping station, w[illegible] all necessary machinery, and laying m[illegible] in various streets.

PATTERSON, LA.—The [illegible]tion of constructing water-works syst[illegible] is being considered.

DICKSON, TENN.—The [illegible] has voted bonds amounting to $25,000 [illegible] constructing water-works. W. T. Turner [illegible] Mayor.

SWEETWATER, TENN.—[illegible]s amounting to $30,000 have been voted [illegible] constructing water-works.

MEMPHIS, TENN.—Bids [illegible] asked until 10 a. m., Sept. 30, by [illegible]son, Secy. Drainage Commission Talla[illegible]hie County, for construction of a main [illegible] in Ascalmore Drainage District. D[illegible] about four miles long, four ft. deep and [illegible] ft. wide.

LOUISVILLE, KY.—The B[illegible] of Waterworks has awarded contract [illegible] the ALLIS-CHALMERS CO., Milwauke[illegible], for installing pumping engine of 2[illegible],000-gallon capacity per 24 hours, at the [illegible]ver Pumping Station for $187,952; tim[illegible] for completion, 16 months. The HOL[illegible] MFG. CO., Roberts Ave., near Clinton St[illegible] Buffalo, N. Y., secured the contract for i[illegible]ling pumping engine of 24,000,000 gallon[illegible] capacity per 24 hours at the Crescent Hill [illegible]mping Station for $153,622; time, 15 m[illegible]. Joseph P. Claybrook is City Engr.

MURRAY, KY.—A water-wo[illegible] and electric light plant will be installed. Estimated cost, $19,500.

SANDUSKY, OHIO.—The contract for constructing municipal filtration plant has been awarded to THOMAS LIGHTBODY, of Youngstown, and W. M. HENDERSON, of Warren. Estimated cost, $100,000. A. C. Schultz is City Engr.

SUMMIT, ILL.—Bids are asked until 8 p. m., Sept. 25, by Jas. Johnstone, Village Clk., for drilling 1,600-ft. well.

MADISON, WIS.—Bids are asked until Sept. 27 by the Board of Water Commissioners, John B. Heim, Supt., for constructing 1,000,000-gallon concrete storage basin; drilling one, and possibly two artesian wells. J. F. Icke is City Engr.

LINDEN, WIS.—Plans are being prepared by George Harrop, South Bend, Ind., for constructing water-works system. Estimated cost $8,000. H. F. Treloor is Village Clk.

ONAWA, IOWA.—Bids are asked by the Board of County Supervisors until Oct. 1 for constructing McCandless ditch. The work includes about 400,000 cu. yds. of excavation.

BOONE, IOWA.—Bids are asked by the Board of County Supervisors until 1 p. m., Sept. 27, for constructing County Drain No. 36. E. F. Jones is County Audr.

MUSCATINE, IOWA.—Bids are asked by the Board of County Supervisors until noon, Oct. 8, for constructing ditches in Drainage District No. 3. A. S. Lawrence is County Audr.

MINNEAPOLIS, MINN.—The State Drainage Board has awarded contracts to ASPIN BROS. for constructing three ditches in Kittson County at 15½ cts. and one ditch in Marshall County at 14 cts. The work consists of about 180,000 cu. yds. excavation. Total estimated cost, $30,000.

HALSTEAD, KAN.—A water-works system will soon be installed.

GARDEN CITY, KAN.—The Council is considering the question of extending the water mains. Estimated cost, $20,000.

FRANKLIN, NEB.—It has been decided to install water-works system.

BAY CITY, TEX.—The question of constructing water-works system is being considered. Estimated cost, $18,000.

GRANITE, OKLA.—A water-works system will probably be installed.

CAPITOL HILL, OKLA.—Bonds amounting to $85,000 have been authorized by the City Council for constructing water-works and sewerage systems.

VINITA, IND. T.—The Electric Light, Ice & Power Co. will install water-works plant at Vinita.

PAONIA, COLO.—The Mt. Lamborn Canal & Reservoir Co., C. C. Hawkins, Secy., contemplates building seven miles of canal this fall and a reservoir and six miles of canal in 1908. Estimated cost, $75,000. E. P. Martin, of this city, is Engr.

HESPERUS, COLO.—Bids are asked until 2 P. M., Sept. 27, by the Office of Indian Affairs, Washington, D. C., for improving water-works system at Fort Lewis School. John S. Spear is Supt. of School.

*CANON CITY, COLO.—The date for receiving bids for constructing reservoir at Cottonwood Creek and laying pipe line to city water mains has been extended to Oct. 7.

SEATTLE, WASH.—The lowest bids received Sept. 7 by the Board of Public Works for constructing water mains in 28th and 38th Aves., North, were submitted by H. F. Jahn & Co., and the International Contracting Co., 737 New York Block, Seattle, at $3,571 and $6,436, respectively. R. H. Thomson is City Engr.

SEWERAGE.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro of the Bronx, until 11 A. M., Sept. 26, for constructing sewers and appurtenances and receiving basins in various parts of the Bronx.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 A. M., Sept. 25, for constructing relief sewers, Division 2, Sections 2 and 3, Gold St. System, Brooklyn.

Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 A. M., Sept. 30, for constructing sewers, catch basins, etc., in various streets, Boro. of Queens.

COHOES, N. Y.—Bids are asked by the Common Council until Oct. 1, for constructing sewer. William J. Elliot is City Clk.

KINGSTON, N. Y.—The Board of Water Supply, 299 Broadway, New York, has awarded to the HAGGERTY CONTRACTING CO., 215 West 125th St., New York, Contract No. 5 for constructing portion of intercepting sewer in Kingston. Estimated cost, $14,568.

FT. DU PONT (Delaware City post-office), DEL.—See under Water Supply-Irrigation.

*WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, Sept. 30, for constructing sewer.

ELKINS, W. VA.—Bids will soon be asked for constructing sewer extension. Penniman & Fairley, 411 Marine Bank Bldg., 33 South Gay St., Baltimore, Md., are Engrs.

HUNTINGTON, W. VA.—Bonds amounting to $10,000 have been voted for constructing sewers. J. H. Sanborn is City Engr.

BENNETTSVILLE, S. C.—A sewerage system will be constructed.

JASPER, ALA.—Bids are asked until Oct. 3 for constructing sanitary sewerage system. Estimated cost, $15,000. P. Byrne is Consult. Engr.

CANTON, MISS.—The Board of Aldermen has temporarily postponed the date for receiving bids for constructing a system of 6 to 8-in. house sewers, about seven miles in length, as advertised. O. S. Miller is Mayor.

ALEXANDRIA, LA.—The contract for approximately five miles of sewer has been awarded to P. H. PORTER, of Clinton, Ky., for $10,651. I. W. Sylvester is City Engr.

NASHVILLE, TENN.—The lowest bid recently received for constructing the city cemetery sewer was submitted by Curtis & Lewneur at $6,696. W. W. Southgate is City Engr.

JOHNSON CITY, TENN.—The contract for constructing 4,200 ft. 8-in. vitrified sewer, Y's, etc., has been awarded to the HASSOM PAVING CO., at $5,852. L. N. Wilson, Jr., is City Engr.

LAKEWOOD (Cleveland post-office), OHIO.—Bids are asked by B. M. Cook, Village Clk., until 11 A. M., Sept. 20, for constructing sewers in Irene Ave. The William H. Evers Engineering Co., 237 The Arcade, Cleveland, are Engrs.

HAMILTON, OHIO.—Bids are asked by A. Rothwell, Secy. Board of Public Service, until noon, Sept. 21, for constructing sanitary and storm water sewer. A. L. Dillon is City Engr.

LEIPSIC, OHIO.—The City Council has awarded contract for constructing the Hickey sewer to F. R. STONE, of Lima, for $5,244.

RICHMOND, IND.—Bids are asked until Sept. 25 for constructing sewer in West Second St. Fred R. Charles is City Engr.

*CADILLAC, MICH.—Plans and specifications for constructing sewage purification works and pumping station, as advertised, are on file at office of Engineering News, New York. Bids are asked by the Board of Public Works, George Johnston, Clk., until Oct. 1.

ELROY, WIS.—The contract for 6,643 ft. of 6 to 18-in. pipe sewers has been awarded to SWEENEY BROS., of Reedsburg, Wis. J. M. Dix is City Clk.

MONETT, MO.—Bids are asked until Sept. 24 for constructing sanitary sewers and septic tanks. Burns & McDonnell, 823 Scarritt Bldg., Kansas City, Mo., are Engrs.

CAPITOL HILL, OKLA.—See under Water Supply-Irrigation.

ABERDEEN, WASH.—Bids are asked by P. F. Clark, City Clk., until 5 p. m., Sept. 23, for constructing sewers. The work includes about five miles of 8 to 24-in. vitrified clay pipe sewers, including manholes, flush tanks, etc. H. W. Troutman is City Engr.

SEATTLE, WASH.—The following were lowest bids received Sept. 7 by the Board of Public Works for constructing sewers: Franklin Ave., T. I. Peterson, 324 24th Ave. South, $18,883; East Cherry St., Nelson & Codson, Seattle, $1,313; Yakima Ave., T. I. Peterson, $6,787. R. H. Thomson is City Engr.

No bids were received for constructing Green Lake District of the North Trunk Sewer. Bids will soon be readvertised for by the Board of Public Works.

CENTRALIA, WASH.—The NORTHWEST BRIDGE CO., of Tacoma, has been awarded contract for constructing sewerage system for $22,150.

BELLINGHAM, WASH.—C. G. BURNETT has been awarded contract for constructing Broadway Park sub-sewer for $7,484.

OAKLAND, CAL.—The contract for constructing sewer in Channing St. has been awarded to the STANDARD CONSTRUCTION CO., at $9,659. F. C. Turner is City Engr.

OTTAWA, ONT.—The Civic Board is considering the question of constructing system of relief sewers in the Upper Town. Estimated cost, $28,000. N. J. Ker is City Engr.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

MEDFORD, MASS.—We are officially advised that the following bids have been received by the Metropolitan Park Commission, Boston, for grading, surfacing, etc., at Middlesex Fells Extension, Medford: Thomas F. Welch, West Roxbury, $62,022; Falvey & Kelley, Dorchester, $57,995; Bruno & Petitti, Boston, $55,571; Hugh Nawn Contracting Co., Roxbury, $53,661; John F. Gill Co., Somerville, $53,437; Coleman Bros., Boston, $49,127, and ROWE & PERINI CONSTRUCTION CO., Melrose, $44,230 (awarded contract). The itemized bid of the Rowe & Perini Construction Co. is given this week under Contract Prices. John R. Rablin is Engr.

HAVERHILL, MASS.—The following bids were received Aug. 27 for constructing state highways at Haverhill:—W. H. Gross & Co., $15,458; F. E. Ellis, $13,727; J. E. Watkins, $12,019; R. F. Hudson, $11,266; Ed. Adams, $10,964.

BARNSTABLE, MASS.—Bids were received Aug. 27 for constructing state highways at Barnstable: R. F. Hudson, $6,649; William Sears, $6,329, and C. H. Thomas, $6,053.

PROVIDENCE, R. I.—The State Board of Public Roads has awarded contracts for constructing state highways in various towns as follows: Coventry, 31,680 ft., JOHN BRISTOW, $23,410; Glocester, 10,560 ft., A. W. STEERE, $7,814; Glocester and Burrillville, 5,280 ft., A. W. STEERE, $3,819; Foster, 5,280 ft., A. W. STEERE, $3,970; Jamestown, 5,280 ft., ALTON HEAD, $4,784; Lincoln, 3,000 ft., T. J. QUINN, $2,528; Little Compton, 5,280 ft., LANE CONSTRUCTION CO., $5,408; Narragansett, 7,920 ft., JOHN BRISTOW, $10,398; Portsmouth, 3,000 ft., LANE CONSTRUCTION CO., $3,577; Tiverton, 2,640 ft., L. H. CALLAN, $2,192; Warwick, 15,840 ft., DANIEL A. WATSON, $2 per cu. yd.

ALBANY, N. Y.—The following bids were received Sept. 3 by Frederick Skene, State Engr. and Surv., for improving public highways: Road No. 286. Left Fork German Church-Redman, Monroe County, 5.548 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $36,328; Frank W. Truesdale, $36,510; Monroe Roads Co., Rochester, N. Y., $37,951; Mosier & Summers, 1266 Seneca St., Buffalo, N. Y., $38,114; The Scofield Co., Penn. Bldg., Philadelphia, Pa., $57,765.

No. 330, Skaneateles-Hamilton, Sec. 1, Onondaga County, 2.437 miles: Stewart-Kerbaugh-Shanley Co., $26,692.

No. 303, Fonda-Tribes Hill, Montgomery County, 2.21 miles: Stewart-Kerbaugh-Shanley Co., $18,706; Hinman & Sproul, Schenectady, N. Y., $18,736; D. I. Snell & Co., Fonda, N. Y., $22,245; The Scofield Co., $24,041; U. G. Stockwell, Albany, N. Y., $24,165; Bellew & Merritt Co., Tuckahoe, N. Y., $25,722.

No. 362, Northville-Chapman's Corners, Fulton County, 1.71 miles: Alonzo Schaupp, Albany, N. Y., $15,345; Linehan & Burnham, Glens Falls, N. Y., $15,355; Stewart-Kerbaugh-Shanley Co., $15,660; Bellew & Merritt Co., Tuckahoe, N. Y., $19,382.

No. 307, Plattekill-Modena, Ulster County, 7.37 miles: Joseph Walker, Albany, N. Y., $58,579; Hinman & Sproul, Schenectady, N. Y., $59,375; Stewart-Kerbaugh-Shanley Co., $60,432; R. Kasson, Glens Falls, N. Y., $64,513; DeGraff & Hogeboom, Bloomington, N. Y., $65,690; Bellew & Merritt Co., Tuckahoe, N. Y., $79,331.

No. 313, Middletown-Cuddebackville, Sec. 2, Orange County, 6.321 miles: Stewart-Kerbaugh-Shanley Co., $51,072; Orange County Road Construction Co., 120 Broadway, New York, $51,293; Guerney & Fusco, $62,135; Bellew & Merritt Co., Tuckahoe, N. Y., $62,687.

No. 304, Sprakers-Rural Grove, Montgomery County, 5.64 miles: Stewart-Kerbaugh-Shanley Co., $55,794; Brown & Lowe, Schenectady, $56,101; Bellew & Merritt Co., $64,826; The Scofield Co., $78,995.

No. 382, Walden-Pine Bush Road, Orange County, 6.57 miles: Stewart-Kerbaugh-Shanley Co., $28,490; Orange County Road Construction Co., $29,723; Bellew & Merritt Co., $41,485.

No. 306, Kingston-Ulster Landing, Ulster County, 5.564 miles: Stewart-Kerbaugh-Shanley Co., $51,797; Joseph Walker, Albany, N. Y., $52,067; John Consalus, Staten Island, N. Y., $76,141; Bellew & Merritt Co., $81,575.

No. 381, State Road-Scott, Cortland County, 2.72 miles: Stewart-Kerbaugh-Shanley Co., $25,916.

No. 376, Gloversville-Bull Run, Fulton County, 2.39 miles: Stewart-Kerbaugh-Shanley Co., $23,432; Bellew & Merritt Co., Tuckahoe, N. Y., $28,417.

No. 363, Mayfield-Northville, Sec. 1, Fulton County, 1.37 miles: Stewart-Kerbaugh-Shanley Co., $10,408; Linahan & Burnham Co., Glens Falls, N. Y., $10,671; Alonzo Schaupp, $11,302; Bellew & Merritt Co., $15,489.

No. 236, Redwood-Alexandria Bay, Sec. 2, Jefferson County, 4.188 miles: Stewart-Kerbaugh-Shanley Co., $35,467; Reed, Fitzgibbons & Keeler, Alexandria Bay, N. Y., $49,843; Bellew & Merritt Co., Tuckahoe, N. Y., $57,389.

No. 294, Clover St., Sec. 1, Monroe County, 5.887 miles: Stewart-Kerbaugh-Shanley Co., $40,456; Monroe Roads Company, Rochester, N. Y., $40,475; Mosier & Summers, Buffalo, N. Y., $42,757.

No. 390, Maple Ridge, Sec. 2, Orleans County, 2.797 miles: F. W. Knickenburg, 708 Michigan Ave., Buffalo, N. Y., $16,636; Monroe Roads Co., Rochester, N. Y., $16,859; Gants-Wilson Construction Co., Buffalo, N. Y., $18,655; LaValley & Crowley, $21,335.

No. 273, Seneca River, north side, Seneca County, 1.301 miles: Chambers & Grady, $14,926; Stewart-Kerbaugh-Shanley Co., $15,208; A. C. Martin & Co., $15,332.

No. 291, Cemetery Road, Onondaga County, .889 mile: Stewart-Kerbaugh-Shanley Co., $10,934.

No. 389, Maple Ridge, Sec. 1, Orleans County, 3.072 miles: Fred. W. Knickenburg, Buffalo, N. Y., $17,974; Monroe Roads Co., Rochester, N. Y., $19,125; Gantz-Wilson Construction Co., Buffalo, N. Y., $21,904; LaValley & Crowley, $24,488.

No. 278, Syracuse-Watertown, Oswego County, 2.410 miles: Stewart-Kerbaugh-Shanley Co., New York, $23,476; Boleny Construction Co., $23,538; Marcellus & Ballard, $24,924; John H. Gordon, Albany, N. Y., $25,292.

No. 337, Syracuse Turnpike, Madison County, 1.576 miles: Stewart-Kerbaugh-Shanley Co., $12,525; Town of Cazenovia, N. Y., $13,580.

No. 385, Albany-Schenectady, Sec. 2, Albany County, 5.14 miles: Schenectady Contracting Co., Schenectady, N. Y., $44,650; Morris Kantrowitz, Albany, N. Y., $44,117; Robinson, Gerhart Contracting Co., New York, $50,790; John B. Switz (informal), $50,836; Stewart-Kerbaugh-Shanley Co., $51,095; The Buckley Construction Co., Plattsburg, N. Y., $57,764; U. G. Stockwell, Albany, N. Y., $58,317; Bellew & Merritt Co., $68,249.

No. 245, Coleman Hill, Sec. 1, Onondaga County, 1.212 miles: Stewart-Kerbaugh-Shanley Co., $14,716.

No. 279, West Oswego River, Oswego County, 2.480 miles: Stewart-Kerbaugh-Shanley Co., $25,423; Barnet Contracting Co., Oswego, N. Y., $25,874.

No. 289, Crescent Ave., Suffolk County, 1.91 miles: E. M. & W. Ferguson, $16,896; Stewart-Kerbaugh-Shanley Co., $17,141; R. C. Shancklin, $17,494.

ALBANY, N. Y.—The following contracts have been awarded by Frederick Skene, State Engr. and Surv., for improving state highways, bids received Sept. 3, 4 and 5: The STEWART-KERBAUGH-SHANLEY CO., 527 Fifth Ave., New York: Syracuse Turnpike road, Madison County, $12,525; Syracuse-Watertown road, Oswego County, $23,475; Fonda-Tribes Hill road, Montgomery County, $18,705; Saratoga-Greenfield - Schuylerville - Glens Falls road; Collins-Morton corner road, Sec. 1; Phoenix-Pennellville road, Oswego County; Lawton-Gowanda road, Erie County; East Nassau-Brainard road, Rensselaer County; Hamburg-Springville road, Sec. 1, Erie County; Watertown-Theresa road, Sec. 3, Jefferson County; Mt. Morris-Geneseo road, Livingston County; Norwich-South New Berlin road, Chenango County; Alden-Town line and Clinton St.-Marilla road, Erie County; Trumansburg-Ithaca road, Tompkins County; Carmel-Kent road, Putnam County; Cayuga Heights-Henshaw Corners road, Tompkins County; Lewiston-Dickinsonville road, Niagara County; Hamburg-Springville road, Sec. 2, Erie County; Cortland-Dryden, Sec. 2, Cortland; Auburn-Owasco road, Cayuga County; Base Line-Grand Island road, Sec. 1, Erie County.

E. M. & W. FERGUSON, Fisher's Island, N. Y., Crescent Avenue road, Suffolk County, $16,896.

FRED. W. KNICKENBURG, 702 Michigan Ave., Buffalo, N. Y., Maple Ridge Road, Sec. 1, Orleans County, $17,974; Maple Ridge Road, Sec. 2, Orleans County, $16,636.

JOSEPH WALKER, Albany, N. Y., Plattekill-Modena road, Ulster County.

H. C. SCHROEDER, 394 South Ave., Rochester, N. Y., Reservation Road-Fayette, Seneca County.

WHITMORE, RAUBER & VICINUS, Rochester, N. Y., Portland Ave. road, Sec. 2, Monroe County.

MORRIS KANTROWITZ, Albany, N. Y., Saratoga-Gansevoort Road, Saratoga County.

JEREMIAH T. FINCH, Glens Falls, N. Y.: Latta road, Monroe County; Syossett-Gold Spring Harbor road, Nassau County. West Chazy-Chazy Road, Clinton County.

MOSIER & SUMMERS, 1266 Seneca St., Buffalo, N. Y., North Collins-Lawton road, Erie County.

NEWPORT CONSTRUCTION CO., Newport, Herkimer County, N. Y., Middleville-Poland road, Herkimer County; Norwich-Kings Settlement road, Chenango County.

MOLLOY & DAVIS, Schenectady, N. Y.: Troy-Schenectady road, Sec. 2, Schenectady County.

CASEY & MURRAY, Rochester, N. Y.: Utica-Bridgewater, Oneida County; Mohawk River Road-Rome, Oneida County.

LANE CONSTRUCTION CO., Syracuse, N. Y.: Matteawan-Wicopee road, Dutchess County.

REARDON & BYRNES, Glens Falls, N. Y.: Sandy Hill-Glens Falls road, Warren County.

GANTZ WILSON CONSTRUCTION CO., Buffalo, N. Y.: Olean-Allegany road, Cattaraugus County.

HINMAN & SPROUL, Schenectady, N. Y.: New Lebanon-Brainard road, Columbia County.

No awards were made on the following roads, the lowest bids being above the Engineer's estimates: Seneca River road, North Side, Seneca County; Conklin road, Broome County; Riverside Drive, Broome County; Valley Falls road, Rensselaer County; Belle Isle road, Onondaga County; Tully road, Onondaga County.

ALBANY, N. Y.—The following bids were received Sept. 4 and 5 by Frederick Skene, State Engr. and Surv., for state highway improvements: Road No. 405, Westchester County: William McCabe, $16,021; Bellew & Merritt Co., Tuckahoe, N. Y., $15,571; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $14,788; F. W. Malloy, Schenectady, N. Y., $17,000.

Road No. 407, Schenectady County: U. G. Stockwell, Albany, N. Y., $40,692; Schenectady Contracting Co., Schenectady, N. Y., $40,761; Malloy & Davis, Schenectady, N. Y., $34,226; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $38,106; M. Kantrowitz, Albany, $31,083; J. W. Switz, $36,298.

Road No. 421, Broome County: Stewart-Kerbaugh-Shanley Co., New York, $74,576.

Road No. 423, Jefferson County: Reed, Fitzgibbons & Keeler, Alexandria Bay, N. Y., $42,740; Stewart-Kerbaugh-Shanley Co., New York, $37,170.

Road No. 437, Nassau County: Andrews Bros., $79,638; F. J. Gallagher, $79,444; Russell Contracting Co., $70,357; R. S. Kasson, Glens Falls, N. Y., $72,339; Stewart-Kerbaugh-Shanley Co., New York, $72,283; Henry J. Mullon, $70,995.

Road No. 439, Rensselaer County: Thomas H. Karr, Troy, N. Y., $38,964; Morris Kantrowitz, Albany, N. Y., $34,648; Stewart-Kerbaugh-Shanley Co., New York, $37,950.

Road No. 442, Saratoga County: Morris Kantrowitz, Albany, N. Y., $37,611; U. G. Stockwell, Albany, N. Y., $47,487; Linehan & Burnham, Glens Falls, N. Y., $41,247; Stewart-Kerbaugh-Shanley Co., New York, $42,122.

Road No. 443, Saratoga County: Newport Construction Co., Newport, Herkimer County, N. Y., $66,888; Hinman & Sproul, Schenectady, N. Y., $59,246; Ralph Russell, $65,889; Buckley Construction Co., Plattsburgh, N. Y., $66,117; Stewart-Kerbaugh-Shanley Co., New York, $55,195.

Road No. 444, Broome County: Stewart-Kerbaugh-Shanley Co., New York, $12,365.

Road No. 450, Oswego County: John Young, $20,539; Stewart-Kerbaugh-Shanley Co., New York, $13,787.

Road No. 451, Oswego County: Barnett Contracting Co., Oswego, N. Y., $21,687; John Young (informal); Stewart-Kerbaugh-Shanley Co., New York, $20,934.

Road No. 461, Herkimer County: Thomas J. Allen, $53,965; John B. Swits (informal); Casey & Murray, Rochester, N. Y., $76,540; Newport Construction Co., Newport, N. Y., $71,256; Stewart-Kerbaugh-Shanley Co., New York, $73,332.

Road No. 477, Rensselaer County: M. Fitzgerald, Hoosic Falls, N. Y., $40,139; Stewart-Kerbaugh-Shanley Co., $33,775.

Road No. 488, Onondaga County: Albert Gaffey, $22,188; Stewart-Kerbaugh-Shanley Co., $17,634.

Road No. 489, Onondaga County: Stewart-Kerbaugh-Shanley Co., $38,982.

Road No. 503, Westchester County: Malloy & Murray, $87,831; Freeman Merritt, $90,880; Wm. F. McCabe, $80,503; Robinson & Gerhart Contracting Co., Park Row, New York, $89,079; Pennell & Oliver, $93,655; Bellew & Merritt Co., Tuckahoe, N. Y., $98,779; Stewart-Kerbaugh-Shanley Co., $89,942.

Road No. 508, Albany County: Robinson & Gerhart Contracting Co., Park Row, New York, $38,646; Scott & Connors, Albany, N. Y., $38,754; Stewart-Kerbaugh-Shanley Co., $40,471.

Road No. 519, Westchester County: Bellew & Merritt Co., Tuckahoe, N. Y., $42,893; Kernes & Hart, $48,447; F. W. Malloy, $41,994; Wm. F. McCabe, $39,709; Stewart-Kerbaugh-Shanley Co., $39,653.

Road No. 520, Westchester County: W. F. McCabe, $32,005; Malloy & Murray, $38,475; Bellew & Merritt Co., Tuckahoe, N. Y., $40,062; J. B. Pennell, $36,035; Stewart-Kerbaugh-Shanley Co., $31,823.

Road No. 521, St. Lawrence County: Stewart-Kerbaugh-Shanley Co., $59,660.

Road No. 524, Erie County: Bennett & Ryan, $64,624; Erie County Supervisors, Buffalo, N. Y., $72,407; Gantz-Wilson Construction Co., Buffalo, N. Y., $73,779; Stewart-Kerbaugh-Shanley Co., $65,343; Mosier & Summers, 1266 Seneca St., Buffalo, N. Y., $64,586.

Road No. 525, Erie County: Erie County Supervisors, Buffalo, N. Y., $53,676; Bennett & Ryan, $44,502; Gantz-Wilson Construction Co., Buffalo, N. Y., $49,818; Mosier & Summers, Buffalo, N. Y., $50,383; Stewart-Kerbaugh-Shanley Co., $44,447.

Road No. 526, Erie County: Erie County Supervisors, Buffalo, N. Y., $38,803; Mosier & Summers, Buffalo, N. Y., $38,563; Gantz-Wilson Construction Co., $38,641; Stewart-Kerbaugh-Shanley Co., $36,434.

Road No. 527, Erie County: Erie County Supervisors, Buffalo, N. Y., $88,332; Mosier & Summers, Buffalo, N. Y., $87,217; Monroe Good Roads Co., Rochester, N. Y., $73,594; George F. Cook, $83,913; Stewart-Kerbaugh-Shanley Co., $72,915.

Road No. 597, Chenango County: M. L. Siver & Co., $34,158; Buell & White, $39,759; Newport Construction Co., Newport, N. Y., $33,127; Stewart-Kerbaugh-Shanley Co., $33,717.

Road No. 601, Cattaraugus County: Gantz-Wilson Co., Buffalo, N. Y., $35,963; Stewart-Kerbaugh-Shanley Co., $36,080.

Road No. 606, Tompkins County: Stewart-Kerbaugh-Shanley Co., $21,512; Standard Construction Co., $21,805.

Road No. 614, Cayuga County: Chambers & Grady, Rochester, $56,004; Stewart-Kerbaugh-Shanley Co., $54,662.

Road No. 615, Columbia County: Thomas H. Karr, Troy, N. Y., $57,614; Morris Kantrowitz, Albany, $50,921; Hinman & Sproul, Schenectady, N. Y., $53,188; James P. Dunn, $65,783; Brown & Lowe, Schenectady, N. Y., $73,308; Stewart-Kerbaugh-Shanley Co., $57,527.

Road No. 616, Tompkins County: Casey & Murray, Rochester, $93,849; Pearsall & O'Hara, $94,319; Stewart-Kerbaugh-Shanley Co., $88,440.

Road No. 617, Niagara County: Good Roads Construction Co., Rochester, N. Y., $36,343; C. B. Whitemore, Rochester, $33,457; F. W. Knickenburg, 702 Michigan St., Buffalo, $32,718; Stewart-Kerbaugh Shanley Co., $32,330.

Road No. 622, Livingston County: Gantz-Wilson Construction Co., Buffalo, N. Y., $48,259; J. F. Finch, Glens Falls, N. Y., $54,307; Stewart-Kerbaugh-Shanley Co., $46,197.

Road No. 640, Schenectady County: Malloy & Davis, Schenectady, N. Y., $28,717; Newport Construction Co., Newport, N. Y., $29,305; Joseph H. Clemence, $28,844; Schenectady Contracting Co., Schenectady, N. Y., $32,150; John Weber & Sons, $30,729; Casey & Murray, Rochester, N. Y., $36,046; Bellew & Merritt Co., Tuckahoe, N. Y., $36,910; U. G. Stockwell, Albany, N. Y., $33,637; Stewart-Kerbaugh-Shanley Co., $30,419; Theodore M. Kalbfleisch, $33,924.

Road No. 656, Warren County: Reardon & Byrnes, Glens Falls, N. Y., $20,062; U. G. Stockwell, Albany, N. Y., $28,149; Stewart-Kerbaugh-Shanley Co., $21,867.

Road No. 570, Putnam County: Bellew & Merritt Co., Tuckahoe, N. Y., $58,684; Joseph Walker, Albany, $52,760; John Turname, $56,786; Stewart-Kerbaugh-Shanley Co., $51,925.

Road No. 596, Chenango County: M. L. Siver & Co., $34,158; Stewart-Kerbaugh-Shanley Co., $33,217; Ruell & White, $39,759; Newport Construction Co., Newport, N. Y., $33,127.

Road No. 528, Erie County: Erie County Supervisors, Buffalo, N. Y., $66,323; Stewart-Kerbaugh-Shanley Co., $61,258.

Road No. 529, Erie County: Erie County Supervisors, $47,915; Stewart-Kerbaugh-Shanley Co., $45,597.

Road No. 530, Erie County: Continental Engineering & Contracting Co., Buffalo, $16,413; Erie County Supervisors, Buffalo, $16,353; Stewart-Kerbaugh-Shanley Co., $13,697.

Road No. 533, Clinton County: J. T. Finch, Glens Falls, N. Y., $52,305; Buckley Construction Co., Plattsburgh, N. Y., $56,219; Bellew & Merritt Co., Tuckahoe, N. Y., $60,346; Stewart-Kerbaugh Shanley Co., $52,566.

Road No. 535, Cortland County: Stewart-Kerbaugh-Shanley Co., $20,020.

Road No. 545, Nassau County: J. T. Finch, Glens Falls, N. Y., $33,679; Andrews Bros., $50,199; Russell Contracting Co., $38,-777; Henry J. Mullon, $37,958; Stewart-Kerbaugh-Shanley Co., $35,302; Dewitt C. Boucker, $38,773.

Road No. 552, Dutchess County: Bellew & Merritt Co., Tuckahoe, N. Y., $63,450; Lane Construction Co., Syracuse, $49,742; John E. Consaulus, Staten Island, N. Y., $51,029; General Construction Co., Davenport, Iowa, $53,563; Stewart-Kerbaugh-Shanley Co., $49,-596.

Road No. 559, Oneida County: Amos Bridges & Sons, $79,420; Casey & Murray, Rochester, $76,347; Stewart-Kerbaugh-Shanley Co., $85,783.

Road No. 560, Oneida County: Casey & Murray, Rochester, $23,407; Stewart-Kerbaugh-Shanley Co., $25,145.

Road No. 567, Dutchess County: Bellew & Merritt Co., Tuckahoe, N. Y., $48,305; Samuel Beskine, Fishkill, N. Y., $43,721; Lane Construction Co., Syracuse, $40,027; Stewart-Kerbaugh-Shanley Co., $47,395.

ALBANY, N. Y.—A list of contracts awarded by Frederick Skene, State Engr. and Surv., for improving state highways will be given next week. Bids were received Sept. 3, 4 and 5.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Sept. 27, by Henry S. Thompson, Acting Pres. Boro. of Manhattan, and Comr. of Public Works, for regulating and paving with asphalt and asphalt blocks various streets in Manhattan.

MONROE, N. Y.—We are officially advised that the following bids were received Sept. 5 for constructing sidewalks, gutters, curbing, etc.: Joseph Sharp Construction Co., 647 East 18th St., Paterson, N. J., $3,486; John J. Fitzpatrick, Plattsburg, N. Y., $4,-116, and James Lyons, Brooklyn, N. Y., $4,187. Fred. J. Knight is Engr.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Sept. 26, by Louis F. Haffen, Pres. Boro. of the Bronx, for regulating, grading and paving various streets in the Bronx.

DUBOIS, PA.—We are officially advised that the Boro Council, J. W. Weaver, Secy., has awarded contract to W. B. HUGHES for laying asphalt block pavement on South Main St., together with combined concrete curb and gutter for about $28,000. E. W. Hess, Dubois, is Engr.

WASHINGTON, D. C.—The District Commissioners have awarded contract for grading Albemarle St. to E. G. GUMMEL, 300 Rhode Island Ave., Washington, at 44 cts. per cu. yd.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Oct. 5, for improving Miles Ave. A. B. Lea is County Engr.

NEW PHILADELPHIA, OHIO.—The following bids were received Sept. 3 for paving South Broadway: E. A. Frishwater & Sons, Chester, W. Va., $16,113; J. Meinhart & Sons, Massillon, Ohio, $16,454; Baldwin Bros. & Graham, Columbus, $17,420; Sheets & Lyons, Newcomerstown, Ohio, $15,509; Vogt & Sons, Massillon, Ohio, $15,512; Hensel & Springer, New Philadelphia, $14,988; Adam Schwab, New Philadelphia, $13,834.

BLUFFTON, IND.—Bids are asked by the County Commissioners until 10.30 a. m., Sept. 26, for constructing two gravel roads. C. S. Brineman is County Audr.

GREENCASTLE, IND.—Bids are asked by the County Commissioners until Sept. 28 for improving and constructing roads in Russel, Marion, Monroe and Greencastle Townships. C. C. Hurst is County Audr.

DECATUR, IND.—Bids are asked by the County Commissioners until 10 a. m., Oct. 7, for macadamizing road in Root Township. C. D. Lewton is County Audr.

VINCENNES, IND.—Bids are asked by the County Commissioners until 2 p. m., Sept. 28, for constructing 10,283 ft. of gravel road in Vincennes Township; also Fyffle gravel road in Vincennes Township, 5,736 ft. in length. John T. Scott is County Audr.

Bids are asked by the County Commissioners until 2 p. m., Oct. 8, for constructing 8,000 ft. of gravel road in Vincennes Township.

EVANSVILLE, IND.—Bids will soon be asked by the Board of Public Works for grading, paving and curbing Fountain Ave. James D. Saunder is City Engr.

HARTFORD CITY, IND.—Bids are asked by the County Commissioners until 9 a. m., Oct. 7, for constructing 15,775 ft. of macadam road on lime between Harrison and Washington Townships. L. W. Dougherty is County Audr.

Bids are asked by the County Commissioners until 2 p. m., Oct. 7, for constructing 10,465 ft. of macadam road in Harrison Township and 15,185 ft. of macadam road in Harrison Township, known as roads Nos. 1 and 2.

QUINCY, ILL.—The lowest bid recently received by the Board of Local Improvements for paving portion of Tenth St. was submitted by Henry Rees at $27,095. F. L. Hancock is City Engr.

CHICAGO, ILL.—The Board of Local Improvements has awarded contract for improving String St., between 16th and 21st Sts., to the BARBER ASPHALT PAVING CO., 108 La Salle St., Chicago, for $15,716. The R. F. CONWAY CO., Dock and Mill Paulina Sts., south of Blue Island Ave., Chicago, secured the contract for improving portion of Ruble St. for $15,168.

LINCOLN, ILL.—Bids are asked by the Board of Local Improvements, Charles E. Barrow, Clk., until 9 a. m., Sept. 23, for improving portion of North Kickapoo St. The work includes 2,800 cu. yds. grading, 9,977 sq. yds. paving and 6,142 lin. ft. combined curb and gutter.

BEARDSTOWN, ILL.—JOHN E. BRETZ has been awarded contract for paving with brick approximately three miles of streets, at about $85,000.

FT. McKENZIE, WYO.—The contract for laying concrete walks, crossings, etc., at Ft. McKenzie, has been awarded to R. P. McDONALD, for $10,042.

FT. SAM HOUSTON, TEX.—Bids are asked by L. J. Fleming, Constructing Q. M., until 11 a. m., Oct. 1, for grading, constructing roads and walks, etc., around new hospital, Ft. Sam Houston.

SEATTLE, WASH.—The following are lowest bids received Sept. 7 by the Board of Public Works for grading, etc., various streets: Westview Drive, grading, N. McKinnon, Seattle, $23,931; Sturgis Road, concrete walks, Hans Peterson, 501 Fairview Ave., $5,848; 31st Ave., grading, J. Kalberg & Co., 515 Denny Way, $25,907; 19th Ave., concrete walks, H. F. Jahn & Co., 571 Colman Bldg., Seattle, $6,593; Grand Way, concrete walks, T. I. Peterson, 324 24th Ave. South, $5,269. R. H. Thomson is City Engr.

Bids are asked by the Board of Public Works until Sept. 21 for the following work: (A), paving with asphalt, grading, constructing sewers and water mains, etc., 40th Ave.; estimated cost, $105,000. (B), Paving with vitrified brick alley in Block 61, A. A. Denny's Addition; estimated cost, $5,600. (C), Paving with sandstone blocks Jefferson St.; estimated cost, $7,300. (D), Paving with vitrified brick East Union St.; estimated cost, $23,300.

OGDEN, UTAH.—Bids are asked by the City Council until 8 p. m., Sept. 23, for grading and paving in Paving District No. 10. A. F. Parker is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

NEW BRITAIN, CONN.—Contract for the foundry for the North & Judd Mfg. Co., has been let to the TORRINGTON BUILDING CO., Torrington, Conn. Plans were prepared by Griggs & Hunt, Archs., Waterbury, Conn.

WATERBURY, CONN.—The Plume & Atwood Mfg. Co., of this city, has awarded to the MACAULEY CONSTRUCTION CO. the contract for the erection of an addition to its plant. A 3-story brick structure, 38 × 50 ft., a 1-story brick building, 38 × 40 ft., and the addition of an extra story to one of the present factories, are called for in the plans.

PHILLIPSDALE, R. I.—The Washburn Wire Co. has awarded the contract to the E. K. WATSON CO., Warren, R. I., for constructing its plant at Phillipsdale, including a brick wire mill, two stories, 70 × 154 ft.; annealing building, 84 × 96 ft.; rod mill, 115 × 180 ft.; boiler house, 50 × 96 ft.; engine house, 50 × 180 ft.

BUFFALO, N. Y.—The Marshall Milling Co. will erect a 3-story brick flour and feed mill, 340 × 85 ft., on Ontario St. and the New York Central & Hudson River R. R., at an estimated cost of $50,000.

ALTOONA, PA.—The wheel foundry shop of the Pennsylvania R. R. Co., which has been in use for the past 30 years, is to be torn down and the site is to be used for a large boiler shop. Contracts for the new shop are to be let this fall. A. W. Gibbs is Gen. Supt. Motive Power, Altoona.

PHILADELPHIA, PA.—E. H. Morris, manufacturer of carpet yarns, Manayunk, will erect a 2-story mill. The building will measure 78 × 245 ft., and will be of mill construction with walls of brick. The structure will contain a mill-room, a picker-room, a stock-room, an engine-room, a boiler-room and other departments. Part of the first floor will be used as a stable and wagon house. The cost will be about $100,000.

WASHINGTON, D. C.—Bids were received as follows Sept. 16 at the office of Major Stephen Cosby, Corps Engrs., U. S. A., for constructing a machine shop at the Washington Filtration Plant: Lyons Bros., Brookland, D. C., $3,095; Charles B. Boland, 418 L St., N. W., Washington, $3,330; John F. Boyle, Washington, $3,295; Allen T. Howison, 701 Jackson St., Washington, $3,147; John T. Walker & Sons, 1920 N St., N. W., Washington, $3,486.

CHARLESTON, W. VA.—The E. I. DuPont Powder Co., Wilmington, Del., is considering the question of establishing powder works at Charleston having a daily capacity of about 1,000 kegs, and to cost approximately $200,000. W. S. Simpson is Agent.

NEWBERN, N. C.—RHODES & UNDERWOOD have contract to erect a factory, 200 ft. long, three stories high, with basement, constructed of pressed brick with granite finish. H. W. Simpson has prepared plans.

BUFFALO COVE, N. C.—The Long Island Cotton Mills, Osborne Brown, Pres., Long Island, N. C., will increase capital stock from $50,000 to $200,000, it is stated, to build 5,000-spindle yarn mill and water-power electrical plant at Buffalo Shoals, on the Catawba River, and to build and equip an addition, 50 × 90 ft., to present 3,000-spindle plant at Long Island, installing about 3,000 spindles. See also under Light and Power Plants.

BAINBRIDGE, GA.—The Georgia, Florida & Alabama Ry. Co. will rebuild the railroad shops recently destroyed by fire. Estimated cost, $250,000. C. G. Barney, Bainbridge, is Ch. Engr.

PENSACOLA, FLA.—Bids were received as follows Sept. 14, at the Bureau of Yards and Docks, Navy Dept., Washington, for the construction of a locomotive shed and paint shop at the Navy Yard, Pensacola, Fla.: Lewis & Kitchen, 1200 Michigan Ave., Chicago, Item 1, locomotive shed and paint shop complete, $39,468; Item 2, paint shop, $27,-497; Item 3, locomotive shed, $12,771; George Ittner, Prudential Bldg., Atlanta, Ga., (1) $34,797; Brent Wilkins, 28½ Whitehall St., Atlanta, Ga., (1) $30,550, (2) $24,100, (3) $8,500; C. M. Leach, care Navy Yard, Boston, Mass., (1) $41,357, (2) $31,000, (3) $11,000; H. A. Bishop, 218 La Salle St., Chicago, (1) $29,600, (2) $22,850, (3) $6,750; Penn Bridge Co., Bond Building, Washington, D. C., (1) $30,700, (2) $22,840, (3) $9,-400. All bids submitted by C. M. Leach were conditional.

MOBILE, ALA.—The Mobile Fish & Oyster Co. will erect 40-ton ice and cold storage plant at a cost of $40,000, on a site measuring 257 × 102 ft.

KNOXVILLE, TENN.—It is reported that the Hammock Steel Range Co., Knoxville, will erect a building, 50 × 410 ft., to manufacture steel ranges to put out about 25 tons per day. M. V. Hammock is Pres. and Mgr., E. J. Wooten, Vice-Pres., and Frank J. Jones, Secy. and Treas.

CINCINNATI, OHIO.—Rapp, Zettle & Rapp, Archs., Johnston Bldg., are finishing plans and will receive bids about Oct. 1 for a manufacturing plant at Oakley, for Peck-Williamson Co. Cost, $100,000.

The Cincinnati "Commercial Tribune" states that the Buckeye Brewing Co. will make improvements on its grounds adjoining its plant, in McMicken Ave., to cost about $200,000. Plans for these improvements are now being prepared by the Cincinnati Brewing & Engineering Co., and work on some of the buildings will be started this fall. A 6-story, concrete, fireproof building, 77 × 100 ft., will give added floor space to the brew department, and it will contain the racking and wash-rooms and a storage cellar. A 4-story, dirt-proof building, 30 × 70 ft., is to be erected for the storage of hops, and a cooperage shop, two stories, 40 × 70 ft., is being designed.

DAYTON, OHIO.—The People's Ry. Co. has let general contract to the NOEL CONSTRUCTION CO., Calvert St., Baltimore, Md., for a 3-story power-house, repair barn and general office building. Cost, $250,000.

AKRON, OHIO.—Harpster & Bliss, Central Savings & Trust Bldg., has awarded contract to the WEEKS LUMBER CO., for an addition to factory building for the Firestone Tire & Rubber Co. Building will have four stories, 75 × 112 ft., and will be of brick and mill construction. Work on foundation has started.

GARY, IND.—A. B. Newman, Ch. Engr. for the Indiana Steel Co., Commercial National Bank Bldg., corner of Clark and Adams Sts., Chicago, is preparing plans for the superstructure of a rail mill to be built at Gary. It will be 1,820 × 120 ft., of brick and steel, with composition roof, steam heat and electric light.

ELKHART, IND.—A stock company, headed by C. L. Monger and A. C. Menges, will equip a temporary plant, but will, as soon as possible, erect a new and commodious plant for the manufacture of the Menges cars in this city.

ELKHART, IND.—The Stirling-Hudson Whip Co. has ordered plans for the erection of a factory and a number of tenement houses in this city. The factory will be 60 × 300 ft., three stories high.

MUNCIE, IND.—Thomas F. Hart, Madison Maring and the Ball Bros., glass manufacturers, are preparing to ask for bids for the construction and equipment of an automobile factory in this city.

DETROIT, MICH.—The American Electrical Heater Co., 121 State St., is reported to be having plans prepared for a $50,000 factory which they propose erecting at Cass Ave. and Vienna St.

The Solvay Process Co. will enlarge its plant at Solvay Ave. and River St., for the manufacture of soda ash and other chemicals, from plans now being prepared by the company's engineers, and will shortly call for bids for construction. Andrew H. Green, Jr., is Mgr.

CHICAGO, ILL.—F. E. Gatterdam, Arch., 163 Randolph St., has let the heating contract to CHARLES GLENNEN, 3036 La Salle St., and the plumbing to ROBERT J. ARNOLD, 507 South Western Ave., for a brewery about to be built at the corner of 22d St. and Spaulding Ave., for the New Brewery. The plant will cost $200,000.

Nimmons & Fellows, Archs., Marquette Bldg., are reported to be preparing plans for a plant to be built on the south branch of the Chicago River, north of Archer Ave., for Stein, Hirsch & Co., manufacturers of dextrine, starch and similar products, 2957 Archer Ave. It will comprise six buildings, of various dimensions, 1 to 4-story, of mill construction, with brick exteriors, concrete foundations, composition roofs, structural iron work, and is estimated to cost $200,000.

EAST ST. LOUIS, ILL.—The T. C. Lee Architectural Co., Mercantile Bldg., has prepared plans for a 1-story factory building, 100 × 300 ft., at East St. Louis, Ill., for the Pulles Iron Works, 821 Chestnut St. Estimated cost, $20,000.

MILWAUKEE, WIS.—It is reported that H. C. Hensel, Arch., 834 Second St., has let the contracts on the $80,000 piano plant to be erected near First St. and Keefe Ave., north of the city limits, for the Waltham Piano Co.; masonry, HENRY DANISCHEFSKY, 1060 Eighth St.; iron work, WORDEN-ALLEN CO., Port Washington Road, Gibson Corners. A factory building, of three stories and basement, 60 × 400 ft., of mill construction, and a power plant, 80 × 80 ft., of concrete fireproof construction, will be erected.

ASHLAND, WIS.—The Atwood Lumber & Mfg. Co. has been incorporated in Wisconsin, and the company will erect a saw mill and manufacturing plant on the line of the Wisconsin Central Ry., between Ashland and Abbotsford. George H. Atwood, of Stillwater, Minn., and Frederick Weyerhauser, German-American Bank Bldg., St. Paul, Minn., are associated in the firm. The company has acquired timber to the amount of 300,000,000 ft., and has an option on 200,-000,000 more. Work on the new plant will begin soon after the first of January, with a view to having it in operation early in the spring. The plant will include a saw mill, a hardwood saw mill, a planing mill, a box factory and a sash and door factory. A paper mill is proposed also. An electric power plant will furnish lights for the mills and factories, and will operate a tram railway in the yards. The company will also build a standard-gage railway 50 miles long, to connect with the Wisconsin Central.

SIOUX CITY, IOWA.—Bernard Barthel, 79 Dearborn St., Chicago, Ill., is preparing plans for a brewing plant for the Interstate Brewing Co., Sioux City. The plant is to consist of stock, brew, mill, boiler and bottling houses; to be built of brick, of fireproof construction, electric elevators, asphalt floors, composition roof, etc. Total cost, $200,000. Bids will be received by owners when plans are completed.

ST. LOUIS, MO.—Baker & Knell, Archs., Odd Fellows' Bldg., are preparing plans for a 2-story factory building, 100 × 150 ft., to be built at Vandeventer Ave. and Forest Park Boulevard, for the Wrought Iron Range Co., 19th St. and Washington Ave., to cost $50,000.

WEATHERFORD, TEX.—W. E. Tate and Claude Buster contemplate establishing plant to manufacture a double-power hay press. It is estimated that buildings and equipment will cost $15,000.

TERRELL, TEX.—The Terrell Foundry & Machine Co., Terrell, whose plant was destroyed by fire recently, will erect a new foundry, 50 × 100 ft., for the equipment of which it will immediately require one 32-in. cupola, one jib crane, 20 ft., 30 ft. arm; one elevator, 5 × 6 ft., 12-ft. lift, two tons capacity; ladles of from 150 to 200 lbs. capacity, one worm gear ladle of four tons capacity, shovels, brushes, riddles, one 3-HP. and one 7½-HP. motor, etc.

PORTLAND, ORE.—The Western Cooperage Co. has purchased a 17-acre tract near the Portland dry dock. It is expected that the company will begin the construction of a $200,000 plant soon.

NATIONAL CITY, CAL.—Hanson W. Carter, of Syracuse, N. Y., has obtained an option on a tract of land on the water front of National City. He is to establish a $500,000 woolen mill, it is stated.

DUNSMUIR, CAL.—The shops of the Southern Pacific Co. at this town are to be enlarged, by an addition 100 ft. long, and six stalls are to be added to the roundhouse. The company proposes to erect shops about 1,000 ft. long at Chestnut, one mile south of Dunsmuir.

SWANSEA, ONT.—The Toronto Bolt & Forging Co., Swansea, Ont., will erect an additional plant to cost about $30,000.

SARNIA, ONT.—The Delaware Seamless Tube Co., Auburn, Pa., intends to erect a plant at Sarnia, Ont., it is reported, at a cost of about $200,000.

HAMILTON, ONT.—E. C. ATKINS & CO., saw manufacturers, 402 South Illinois St., Indianapolis, Ind., it is stated, has decided to establish its Canadian branch in Hamilton. It has purchased the old Hoefner works, east of Sherman Ave., below Barton St., and nearly 20 acres of ground. The building will be fitted up to meet the requirements of the new concern, and new buildings will also be erected, the total expenditure amounting to probably $150,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

CONCRETE DAM.—Peterboro, Ont.—Bids are asked by Alex. J. Grant, Supt. Engr. Trent Canal, Peterboro, until 1 p. m., Sept. 20, for building a concrete dam at Bobcaygeon, Ont.

DREDGING.—Seattle, Wash.—One bid was received on Sept. 5 by Maj. H. M. Chittenden, Corps Engrs., U. S. A., for dredging Swinomish Slough, Wash., that of the Puget Sound Bridge & Dredging Co., at 18.8 cts. a cu. yd., or approximately $47,000.

WALLS. — Wilkes-Barre, Pa. — Bids are asked by James M. Norris, County Controller, until 2 p. m., Oct. 2 for building retaining and courtyard walls at new county court-house. McCormick & French, Second National Bank Building, Archs.

RETAINING WALL.—Louisville, Ky.—The contract for the construction of retaining wall along the Beargrass Creek, weakened by the floods last January and March, was awarded on Sept. 6 by the Board of Public Works to the NATIONAL CONCRETE CONSTRUCTION CO., at $5,610.

*DREDGING.—New London, Conn.—Bids were received as follows on Sept. 7 by Maj. Harry Taylor, Corps Engrs., U. S. A., for (a) dredging about 187,500 cu. yds. in Stamford Harbor, Conn.; and (b) 1,000 cu. yds. rock removal: Maritime Dredging Co., (a) 23 cts.; (b) $10; Atlantic Dredging Co., (a) 27.7 cts.; (b) $8.80.

PILE PIER.—Buffalo, N. Y.—Contract for building a pile pier on the south line of Jersey St., which is necessary in connection with the work for the new pumping station, has been let to GEORGE PARKS & SONS, at $8,853, as per plans and specifications, including a stone filling in Jersey St. In case the stone filling is omitted, $7,553.

*CONCRETE CONDUIT AND DREDGING.—Little Rock, Ark.—Bids were received on Sept. 7 for the construction of seven miles open ditch, requiring 143,000 cu. yds. of earth excavation, one reinforced concrete conduit, 84 ins. diameter, 2,635 ft. long. CRESCENT CONSTRUCTION CO., Peoria, Ill., was awarded contract at $86,021.

*CEMENT MAKING MACHINERY.—Los Angeles, Cal.—Bids are asked by the Bureau of Los Angeles Aqueduct, Dept. Pub. Wks., until 11 a. m., Oct. 7, for necessary machinery for the equipment of a Portland cement plant, with daily capacity of 1,000 bbls. of

manufactured cement, consisting of three rotary kilns, crushers, pulverizers, dryers, conveyors, elevators, cars, pulleys and shafting, silex mill linings and flint pebbles, etc. Specifications, etc., are on file at office of Engineering News, New York. Horace D. Ferris, Secy. Bd.

SMELTER.—Haileybury, Ont.—Gates & Carpenter, Salt Lake City, Utah, will erect a large smelter in Haileybury, Ont., at a cost of about $6,000,000.

DITCH.—Ivanhoe, Minn.—Bids are asked by R. H. Sisson, County Audr., until Oct. 25 for constructing Ditch No. 15. A. E. Morgan, St. Cloud, Minn., is Engr.

IRON FENCE.—New York, N. Y.—Bids are asked until 3 p. m., Sept. 26, by Department Parks, for furnishing and delivering 10,000 lin. ft. two-pipe iron fence (No. 1, 1907) for parks, Boro. of the Bronx.

*JETTIES.—Asbury Park, N. J.—Plans and bids are asked until Oct. 9 by the Public Grounds Commission for building jetties to protect and build up the beach at Asbury Park. W. P. Sherman, Secy.

FORGINGS. — Washington, D. C.—The Chief of Ordnance, War Dept., Washington, D. C., has awarded to the MIDVALE STEEL CO., Philadelphia, Pa., contract for furnishing 15 sets steel forgings, at 50 cts. per lb.

CONCRETE DAM. — Indianapolis, Ind.—Bids are asked by the Board of Park Commissioners until Sept. 20 for extensive repairs on the Riverside Park concrete dams. Estimated cost, $7,000 to $10,000. J. Clyde Power, 211 Saks Bldg., Engr.

PIER.—Brooklyn, N. Y.—Bids are asked until noon, Sept. 27, by J. A. Bensel, Comr. Docks, for contract No. 1092: for furnishing all the labor and materials required for preparing for and building an extension to the pier between 51st and 52d Sts., Brooklyn.

SEAWALL.—New Orleans, La.—In the list of bids given last week for constructing interlocking steel pile seawall at Fort St. Philip, the name of the Weinlingen Steel Piling Co., of New York, should be the Weinlinger Steel Piling Co., 11 Broadway, New York. This contract has been awarded to R. M. MURPHY, of New Orleans, at $96,807.

DREDGING.—Washington, D. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has rejected all bids received on Sept. 7, for dredging 20,000 cu. yds. of material in the Potomac River, near Washington Navy Yard, on the ground that they were excessive.

BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. Public Works, Albany, until noon, Oct. 17, for Barge Canal Contract No. 20, which is for dredging a channel in the Mohawk River and performing other work incidental thereto between Rexford Flats and Cranes Village. The contract is 18.5 miles long. Engineer's estimate is $1,112,049.

ELEVATOR GRILLS.—Washington, D. C.—The Superintendent of the Capitol Buildings and Grounds, Washington, D. C., has awarded contract for furnishing 46 elevator grills, six folding gates and six balcony rails, including erection of same, for the House of Representatives Office Building, to the HECLA IRON WORKS, Brooklyn, N. Y., at $14,955.

FILL IN.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. Docks, until noon, Sept. 23, for the right to dump and fill in behind the bulkhead wall recently built or to be built between the northerly side of East 77th St. and the southerly side of East 79th St., prolonged outshore, being part of the Blackwell section, on the East River, Boro. of Manhattan.

DITCHES.—Estherville, Iowa.—Bids were received on Sept. 11 and Sept. 12 by Roy J. Ridley, County Audr., for constructing ditches Nos. 23, 30 and 32. Contract for No. 23 awarded to C. A. GAARDE and ARMSTRONG CEMENT CO., of Armstrong, Iowa; No. 30, A. LEO; No. 32, ALFRED HACKERSON.

Bids are asked until Oct. 15 for constructing two tile ditches, No. 24 and No. 31.

FORGINGS.—Washington, D. C.—The Chief of Ordnance, War Department, Washington, D. C., has awarded contract for furnishing four sets of forgings for 4.7-in. siege rifles, model 1906, to the BETHLEHEM STEEL CO., South Bethlehem, Pa., at 50 cts. per lb., and for 15 sets forgings for three-inch rapid fire guns, model 1903, to the MIDVALE STEEL CO., Philadelphia, at 50 cts. per lb.

*EXCAVATION, CONCRETE WALLS.—Joliet, Ill.—Bids were received on Sept. 3 by the Spring Creek Drainage District Commissioners for excavation of channels and for building concrete walls. Estimated quantity:: (A) Excavated material, 90,000 cu. yds.; (B) concrete walls, 10,000 cu. yds. Contracts have been awarded as follows: (A) ROBERT SHANNON, Joliet; (B) GALLAGHER & BLAIR, Columbia City, Ind.

FILLING IN.—Washington, D. C.—Bids were received as follows Sept. 14, at the office of the Commissioners of the District of Columbia, Washington, D. C., for filling in the approaches to the Anacostia Bridge, Washington, D. C.: Warren Brenizer Co., Washington, 30½ cts. per cu. yd.; Penn Bridge Co., Colorado Bldg., Washington, 34.89 cts.; Jas. J. Overn, Washington, 36 cts.; Geo. Hymen & Geo. Nesline, Washington, 31.9 cts.; B. B. Gonder, Strasburg, Pa., 40 cts.

*ENGRAVING BONDS.—Los Angeles, Cal.—Bids are asked by the Bureau of Los Angeles Aqueduct, Dept. Pub. Wks., until 11 a. m., Sept. 23, for (1) all steel engraved bonds and interest coupons required by the city for issuing $23,000,000 of water-works bonds and for (2) 2,040 all steel engraved bonds and interest coupons required for issuing $2,404,000 of water-works bonds. Horace B. Ferris, Secy. Bd. Specifications and bidding sheet are on file at office of Engineering News, New York.

*CONCRETE DAMS. — Cincinnati, Ohio.—Bids were received as follows on Sept. 11 by Lieut.-Col. Wm. T. Rossell, Corps Engrs., U. S. A., Cincinnati, for constructing dams of concrete, etc., (1) at head of Browns Island and (2) head of Marietta Island, Ohio River, and (3) for building one dike and shore protection in Ohio River near head of Grand Chain, Ill.: (1) Pennsylvania Contracting Co., Pittsburg, $54,172; (2) Knobloch & Shelton, Erie, Pa., $53,204; John C. Thomas, Bellaire, Ohio, $84,020. (3) Oscar F. Barrett, Cincinnati, $30,250. Itemized prices will be given under Contract Prices next week.

DREDGING.—Tacoma, Wash.—Bids were received as follows on Sept. 2 by Maj. H. M. Chittenden, Corps Engrs., U. S. A., Seattle, for dredging the Puyallup waterway and bulkheading and filling. A. W. Tweeden & Co., Tacoma, representing the Northwest Bridge Co.—Dredging, 8 cts. a cu. yd.; piling, 14 cts. a lin. ft.; timber, $19 a M. ft.; brush, $2.40 a cord; stone, $1.98 a cu. yd. North American Dredging Co., San Francisco—Dredging, 11.93 cts. a cu. yd.; piling, 18.5 cts. a lin. ft.; timber, $25 a M. ft.; brush, $3.25 a cord; stone, $2.25 a cu. yd. Puget Sound Bridge & Dredging Co, Seattle—Dredging, 9.9 cts. a cu. yd.; piling, 17.16 cts. a lin. ft.; timber, $31.20 a M. ft.; brush, $2.95 a cord; stone, $2.15 a cu. yd. Richmond Dredging Co., San Francisco—Dredging, 12.47 cts. a cu. yd.; piling, 20 cts. a lin. ft.; timber, $24 a M. ft.; brush, $3.40 a cord; stone, $2.40 a cu. yd. International Contracting Co., Seattle—Dredging, 12.90 cts. a cu. yd.; piling, 19 cts. a lin. ft.; timber, $35 a M. ft.; brush, $3 a cord; stone, $2 a cu. yd. Pacific Coast Dredging & Reclamation Co., San Francisco—Dredging, 14.75 cts. a cu. yd.; piling 17 cts. a lin. ft.; timber, $24.45 a M. ft.; brush, $3 a cord; stone, $2.55 a cu. yd. The appropriation for dredging the waterway is $240,000, and the bulkheading and filling will be paid for by the owners of property.

BUOYS, ETC.—New York, N. Y.—Bids were received by the Light-House Inspector, Tompkinsville, N. Y., on Aug. 21 for furnishing and delivering moorings for vessels, and buoys of the light-house establishment during the fiscal year ending June 30, 1908. The bidders were as follows: (A) Seneca Chain Co., Kent, Ohio; (B) F. L. Banks & Co., New York; (C) Lebanon Chain Works, New York; (D) Hayden-Corbett Chain Co., New York; (E) Weatherly Foundry & Machine Co., Weatherly, Pa.; (F) M. H. Treadwell & Co. of Pennsylvania, Lebanon, Pa.; (G) New Jersey Foundry & Machine Co., New York; (H) Richmond Iron Works, Richmond, Va.; (I) American Ship Windlass Co., Providence, R. I.; (J) Fletcher & Crowell Co., Portland, me.:

Chain for buoys—(A) $13,807 (awarded contract); (B) $13,902; (C) $14,225; (D) $15,043. Lot 2. Chain for buoys—(A) $19,327 (awarded contract); (C) $20,206. Chain for light vessels—(C) $26,491 (awarded contract); (A) $29,698. Cast-iron mushroom anchors—(E) $1,125 (awarded contract); (F) $1,578; (G) $1,602; (H) $1,800; (I) $2,118. Swivels and shackles complete—(J) $3,708 (awarded contract); (G) $4,641. Buoy shackles—(J) $10,607 (awarded contract); (G) $10,864; (A) $12,293.

U. S. POSSESSIONS AND CUBA.

HOISTING ENGINES.—Panama.—Requisitions have been received by the Isthmian Canal Commission, Washington, from the Isthmus, for ten hoisting engines.

BRIDGE.—Panama.—Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded contract for the construction of a steel bridge over the Chagres River to the PENN BRIDGE CO., Beaver Falls, Pa., at $59,600.

CEMENT.—Panama.—Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the ATLAS PORTLAND CEMENT CO., 30 Broad St., New York, contract at $41,100 for furnishing 20,000 bbls. of Portland cement.

BARGES.—Panama.—Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the MARYLAND STEEL CO., Sparrows Point, Md., contract for furnishing three steel barges; capacity, 400 tons; breadth, 30 ft., at $59,495.

ROOFING.—Panama.—Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to STAUFFER, ESHLEMAN & CO., LTD., New Orleans, La., contract for furnishing 45,000 sheets corrugated galvanized-iron roofing and 60,000 lin. ft. galvanized-iron ridge roll, at $47,244.

BRIDGE.—Panama.—Requisitions have been received from the Isthmus by the Gen. Purchasing Officer of the Isthmian Canal Commission, Washington, D. C., for one single track structural steel railway bridge, three-span, with full equipment of bridge ties and guards, long-leaf yellow pine. Specifications are being prepared and will be issued shortly.

ENGINEERING SUPPLIES. — Panama.—Requisitions have been received by the Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., calling for the following engineering supplies, which will be advertised for within the next week or so: 100 tons 45% saltpeter dynamite; three batteries and 100 blasting caps; 1,100 bridge caps and 6,000 stringers; about 10,000 ft. w.-i. steam pipe, extra heavy; 6,350 untreated piles, various lengths; six rock-channelling machines to be operated by compressed air.

STEAM SHOVELS.—Panama.—Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded the following contracts for furnishing fourteen steam shovels, type A, for work on the Isthmus: MARION STEAM SHOVEL CO., Marion, Ohio, seven, at $10,037 each; BUCYRUS CO., South Milwaukee, Wis., seven, at $9,680 each. The original call had been for eleven shovels but when the bids were received it was decided to increase the number to 14 and divide it as above.

TUG BOAT.—Panama.—Bids were received as follows Sept. 12 at the Isthmian Canal Commission, Washington, D. C., for furnishing one tug, for service in connection with the Canal: George Archer, 16 Beaver St., New York, (a) $41,800; New York delivery; (b) $74,000, Philadelphia delivery; (c) $60,000, Baltimore; (d) $42,000, and (e) $58,000, New York; time, from three to ten days. Baker Whiteley Coal Co., Keyser Bldg., Baltimore, $60,000; Sparrow Point delivery. Samuel Holmes, 66 Broad St., New York, $42,000; $42,000; $58,500; $73,500; New York delivery. These prices are on different second-hand tugs.

CIVIL SERVICE EXAMINATIONS.

ENGINEERS, INSPECTORS, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations Oct. 12 for the following positions: Assistant Sanitary Engineer, State Health Dept., $1,500; Assistant Steam Engineer, Onondaga County Service, $720 to $900; Highway Inspector, $3.50 to $4.50 a day; Instructor in Tinsmithing, $780 and board; Leveler, $4.50 to $5 a day; Sanitary Inspector, State Health Dept., $3 to $5 a day; Telephone Operator, Kings County Service, $720; Transit Inspector, Public Service Commission, $1,200. The last day for filing applications for these positions is Oct. 5.

LABORATORY ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 2 to secure eligibles from which to make certification to fill a vacancy in the position of Laboratory Assistant in Timber Tests, in the Forest Service, Dept. of Agriculture, at $600 a year, and similar vacancies as they may occur in that service. Applicants must indicate in their applications that they have a thorough knowledge of the operation of Olsen and Riehle testing machines and instruments used in testing the strength of wood. They should be familiar with the general methods used in testing timber. Age limit, 18 years or over. Application Form 1312.

MARINE STEAM ENGINEER.—California.—The U. S. Civil Service Commission announces the postponement of the examination for Marine Steam Engineer in the Quartermaster's Department, Launch "Captain Smeads," from Aug. 22 to Oct. 5. Attention is invited to the fact that the salary of the position has been changed from $720 a year and rations to $1,080 a year, and the location of the launch has been changed from Fort McDowell, Angel Island, Cal., to Alcatraz Island, Cal. As the result of this examination certification of eligibles will also be made to fill other vacancies requiring similar qualifications as they may occur in any branch of the service. See issue of Aug. 8.

DRAFTSMEN, ETC.—Albany, N. Y.—An examination will be held by the State Civil Service Commission on Sept. 28 for the following positions: Architectural Draftsman, $15 to $25 a week; Assistant Inspector of Gas, $1,080; Axeman or Office Helper, State Engineer's Dept., $2 a day; Bridge Designer, $1,500 to $2,100; Bridge Draftsman, $1,200 to $1,500; Inspector Masonry, $3.50 to $5 a day; Junior Assistant Counsel, Public Service Commission, $1,200 to $3,000; Librarian and Statistician, Public Service Commision, $3,000; Tracer, $480 to $900. The last day for filing applications for these positions is Sept. 21. Other examinations to be held in the near future cover the positions of Highway Inspector, Instructor in Tinsmithing and Transit Inspector for the Public Service Commission. Full information with application forms for any of these examinations may be obtained by addressing the Chief Examiner of the Commission at Albany. Charles S. Fowler, Ch. Examiner.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

ELECTRIC PLANT.—Sweden.—The Town Council of Gothenberg has decided to build an electric plant to cost about $1,500,000.

PNEUMATIC TUBE SERVICE.—Australia.—Date for submitting bids for the pneumatic tube service required by the Postmaster-General's Department, Sydney, has been extended from 2 p. m., July 10, to 2.30 p. m., Oct. 16.

ELECTRIC RAILWAY.—Italy.—A petition for a concession for an electric railway from Brescia to Caffaro will shortly be submitted for the approval of the Council of Public Works, Milan. The estimated cost is $1,000,000.

ELECTRIC LIGHT PLANT, ETC.—Chile.—The General Director of the State Railways, Santiago, has been authorized to expend $1,634,000 upon various works, such as electric light installation, railway construction, and the purchase of machinery.

RAILWAY.—Italy.—Bids are asked until Nov. 4 by the Minister of Public Works for the construction of a line from Ghinda to Nefasit and Nefasit to Amara-Erythrea. A deposit of 400,000 lire (about $80,000) is required.

RAILWAY.—Peru.—The Chamber of Deputies, Lima, has given its sanction to the contract under which Alfred MacCune, an American, is to construct a railway system between Huacho, Cerro de Pasco and the Ucayali River. The government grant is $10,000,000.

RESERVOIR.—Italy.—Bids are asked until Sept. 21 at the Municipal Palace, Porto Empedocle, for the construction of a reservoir and water-works for the distribution of water taken from the Voltano for the supply of Porto Empedocle. Estimated cost, $50,000. A deposit of $5,000 is required.

BRIDGE.—New Zealand.—Waddell & Harrington, Consult. Engrs., New Nelson Bldg., Kansas City, Mo., are engineers for a plate girder arch bridge on concrete foundations, over the Waikato River, at Hamilton, New Zealand. It will have one 340-ft. span and four of 40-ft., 25 ft. in width. Estimated cost, $90,000.

STEEL BRIDGE.—Straits Settlements.—Bids are asked until Sept. 26 by the Municipal Secretary, Singapore, for the steel and iron work and labor required for the manufacture in Great Britain, and erection in Singapore, of a steel bridge about 200-ft. span, having two carriageways, each 30 ft. wide, and two footways, each 7 ft. 6 ins. wide.

AQUEDUCT.—Italy.—The Municipal Council of Sienna has approved the construction of an aqueduct for a water supply. This aqueduct will be about 64 kilometers long, from the springs of the Ennicciolo on Mt. Amiata, near the village of Vivo, 1,004 meters above sea level, to Sienna, and is to be finished in 1910. The estimated cost is 4,000,000 lire (about $800,000).

RAILWAY.—Argentina.—The construction of a railway from a point on the North Argentine Railway between Serrezuela and San Juan to Mendoza, with a branch to Rivadavia and a connection with the Transandine Railway will be undertaken. Materials for the work may be imported free of customs duty, provided they cannot be produced in the country in sufficient quantities or of satisfactory qualities.

RAILWAY.—Belgium.—Bids are asked by La Société Nationale des Chemins de fer Vicinaux, 14, Rue de la Science, Brussels, until Sept. 25, for the construction of a section of the Chapelle-lez-Herliamont to Anderlues railway between Fontaine-l'Evêque and Anderlues stations, at the estimated cost of 62,764 francs (about $12,500). A deposit of $1,250 is required.

PETROLEUM RESERVOIRS. — Servia.—Bids are asked until Oct. 15 for (1) the construction of a new reservoir in Belgrade to contain 2,500,000 kilogs. of refined petroleum at a summer temperature of 45° C.; (2) the alteration of the old reservoir from 2,500,000 kilogs. to 2,000,000 kilogs. containing capacity; (3) embanking the site and macadamizing the area in connection with the above. A deposit of 20% of the amount of the bid must be paid into the Kassa der Monopolverwaltung before Oct. 14.

DRY-DOCK.—Spain.—Bids are asked by the Centro consultativo del Ministerio de Marina, until Oct. 24 for the work of completing the new dry-dock at the Arsenal at La Carraca. The work to be carried out comprises: (1) Construction of side walls at the entrance of the dock; (2) dredging the channel; (3) construction of a storehouse; (4) railway construction; (5) water supply works for fire and cleaning purposes.

ELECTRICAL EQUIPMENT.—Egypt.—Bids are asked by N. le Directeur des Ports et Phares, Alexandria, until Nov. 1, for the supply and installation of the following electrical equipment for the Port of Alexandria: (1) Five large trans-shipping engines; (2) seven small trans-shipping engines; (3) six cranes of 4 tons; (4) 36 cranes of 2 tons; (5) 25 windlasses; (6) various small plants and necessary accessories; (7) the construction and installation of a central power station.

RAILWAYS.—Japan.—H. B. Miller, U. S. Consul-General, of Yokohama, reports that the Japanese Government decided at a recent cabinet meeting to improve arrangements on various lines after the nationalization of railways is effected The following enterprises are expected to be carried out for the five consecutive years from next fiscal year or before the opening of the great exposition of Japan, 1912, with about $75,000,000: Doubling lines (830 miles), $41,500,000; constructing 900 locomotives, $11,250,000; constructing 19,000 vans, $9,500,000; constructing 1,000 passenger cars, $5,000,000; extending and reconstructing stations, $7,500,000, and building five steamers, $750,000.

ELECTRIC POWER EQUIPMENT.—Sweden.—Bids are asked until noon, Oct. 1, for the supply of the electric equipment for the Government power station at Trollhättan, comprising three electric generators for direct current, each of 350 kilowatt; one accumulator-battery of 4,800 ampere-hours capacity; four three-phase generators, each of a maximum of 11,000 kilovolt amperes; twelve transmitters, each of a maximum of 3,670 kilovolt amperes, with connections, regulators and control tables. Sealed bids, marked "Anbud a elektrisk utrustning for Statens kraftverk," should be sent to the Managing Director of the Royal Trollhättan Canal and Water-Works, Trollhättan, Sweden. Bids are binding until Jan. 1, 1908. Delivery is to be completed by Sept. 1, 1909.

TELEPHONE MATERIAL. — Australia.—Bids are asked until Jan. 8, 1908, for the supply and delivery of one common battery switchboard and 3,000 subscribers' telephones to the Postmaster-General's Department, at Adelaide.

Bids are asked until noon, Sept. 30, by the Deputy Postmaster-General, Brisbane, for the supply and delivery of telephones, Leclanché cells, coin attachments, Edison Lalande cells, resistance coils, battery pole changers and operator's sets, as per Schedule 41. (It should be noted, however, in the case of this contract, that the time allowed only admits of firms tendering who have arrangements with their agents which can be availed of by cable.)

Bids are asked until noon, Jan. 7, for the supply of eleven sections of a common battery switchboard and 3,000 subscribers' telephones and other apparatus in accordance with Victorian Specification No. 148, to the Deputy Postmaster-General at Melbourne.

BRIDGE DESIGNS.—Sweden.—Designs and plans are invited for a bridge at Stockholm, for which prizes of 7,000 crowns (crown = 26.8 cts.), 4,000 crowns and 300 crowns are offered. The bridge is an important one owing to its situation as an approach to the new House of Parliament and to the State Bank. Estimated cost, over $100,000. Sketches, drawings, photographs, etc., to assist an architect in forming an idea of the place, may be obtained from "Stockholms Stads-byggnadskontor" by paying 25 crowns. Designs, in sealed envelopes, bearing a motto and marked "Taflingsforslag till bro ofver Norrstrom" must be delivered to "Dratselnamndens registrator, kansli, No. 2 Stora Nygatan, Stockholm, Sweden," not later than 3 p. m., Dec. 15. The design must

be accompanied by two envelopes bearing the competitor's motto, one containing his name (which is opened only in case the designs receive a prize or are purchased) and the other an address to which the designs are to be returned.

HARBOR PROJECT.—Brazil.—The Federal Government of Brazil has granted to "La Compagnie Concessionaire du Port et des Docks de Bahia" the right to construct at Bahia a very extensive system of harbor works, and to exploit the same until the year 1972, when the undertaking will revert to the Union, according to the Board of Trade Journal, London. The projected scheme includes the construction of breakwaters, quays, warehouses, deposits, etc. Additional works will consist of two rectilineal breakwaters. One of these breakwaters will be 325 meters in length; it will start from the southern extremity of the marine arsenal, and will be surmounted by a light-house furnished with a revolving light. The other breakwater will be 915 meters in length. Behind the shelter of these breakwaters will be constructed two quays, one of which, 658 meters in length, with a depth of 6.5 meters of water alongside, will be used by vessels of small tonnage. The second quay, 1,342 meters in length, with a depth of 9.5 meters of water alongside, will be used by ocean-going vessels. It is announced that the actual work of construction in connection with the proposed scheme is about to be commenced, and it is estimated that the entire project will be completed within a period of six years. Albert R. Morawetz is the U. S. Consul at Bahia.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*CONDUIT.—Montreal, Que.—Four bids were received on Sept. 6 for the construction of a reinforced concrete conduit, about 9 ft. in diameter and 27,100 ft. long. George Janin, Supt. and Ch. Engr., Water-Works. The itemized bids were as follows: (A) Estimate of Chief Engineer of Water-Works; (B) Patrick McGovern, 6 Beacon St., Boston; (C) Louis P. Nott, Manchester, Eng.; (D) La Société Canadienne d'Entreprise Générale, Montreal; (E) Trefflé Bastien, Montreal: Approximately 27,100 lin. ft. of conduit, complete—(A) $19; (B) $21.25; (C) $24; (D) $25; (E) $32.97. Approximately 44,000 cu. yds. rock excavation—(A) $2.25; (B) $2; (C) $1.10; (D) $1.85; (E) $1.99. Approximately 10,000 cu. yds. loose rock and boulders—(A) $1.25; (B) 75 cts.; (C) no bid; (D) 24 cts.; (E) $1. Approximately 2,400 lin. ft. piling and flooring—(A) $6; (B) $5.60; (C) $24.50; (D) $11; (E) $14.21. Total—(A) $640,800; (B) $684,815; (C) $757,600; (D) $787,700; (E) $1,025,151.

GRADING.—Boston, Mass.—Bids were received on Sept. 3 by the Metropolitan Park Commission for grading, surfacing and other work at Middlesex Fells parkway extension, Medford, contract for which has been awarded to ROWE & PERINI CONSTRUCTION CO., Melrose, Mass. John R. Rablin is Engr. of the Comn. The bidders were: Thos. F. Welch, West Roxbury, $62,022; Falvey & Kelly, Dorchester, $57,995; Bruno & Petitti, Boston, $55,571; Hugh Nawn Contracting Co., Roxbury, $53,661; John F. Gill Co., Somerville, $53,437; Coleman Bros., Boston, $49,127; Rowe & Perini Construction Co., Melrose, $44,230. The bid of Rowe & Perini, in detail, was as follows: 30,000 cu. yds. earth grading, 40 cts.; 3,500 cu. yds. rock excavation, $1.30; 3,000 cu. yds. rock excavation, $1.90; 1,250 lin. ft. 10-in. vitrified pipe, 45 cts.; 1,000 lin. ft. 12-in. vit. pipe, 60 cts.; 400 lin. ft. 15-in. vit. pipe, $1.25; 175 lin. ft. 18-in. vit. pipe, $1.60; 400 lin. ft. 24-in. vit. pipe, $2; 2,000 lin. ft 6-in. pipe underdrain, 30 cts.; 45 concrete catch-basins and manholes, $30; 250 sq. yds. cobble stone gutters, 75 cts.; 325 lin. ft. straight edge stone, $1; 450 lin. ft. curved edge stone, $1.50; 4,500 cu. yds. loam surfacing, 30 cts.; 4,000 cu. yds. loam, to be furnished, $1; 8,000 sq. yds. gravel roadway surfacing, 45 cts.; 10,500 sq. yds. broken stone, roadway surfacing, 30 cts.; 3,000 sq. yds. walk surfacing, 30 cts.; one reinforced concrete culvert, 6' × 4' × 64' 10", $900; one reinforced concrete culvert, 4' × 4' × 137' 9", $2,200.

TRADE PUBLICATIONS.

VALVES, HYDRANTS, ETC.—The Kennedy Valve Mfg. Co., 57 Beekman St., New York City. Paper; 9 × 5¼ ins.; pp. 132; illustrated.

This is the 1907 edition of the Kennedy catalog and price-list. The line is very complete.

SEWAGE DISPOSAL.—House-Sewage Disposal Co., 6515 Normal Ave., Chicago, Ill. Paper; 5½ × 7 ins.; pp. 4.

This circular describes the Ashley residential septic tank and nitrification duct. The system was described at some length in Engineering News of Jan. 31, 1907.

"FILING DEVICES AND SYSTEMS."—The Shaw-Walker Co., Muskegon, Mich. New York City: The Federal Office Equipment Co., 372 Broadway. Paper; 6¾ × 10 ins.; pp. 72; illustrated.

Busy engineers whose office routine demands systematic record-keeping will find much of interest in this catalog. Prices are given.

PIPE WRENCH.—J. H. Williams & Co., 150 Hamilton Ave., Brooklyn, N. Y. Paper; 3½ × 6 ins.; 4-page folder; illustrated.

The "Agrippa" drop-forged chain pipe-wrench is built narrow, so as to get into crowded spaces and to bite on irregular surfaces. Prices are given.

RAILWAY SIGNAL RELAY.—The Union Switch & Signal Co., Swissvale, Pa. Paper; 6 × 9 ins.; pp. 4; illustrated.

This is a supplement to the 1902 catalog, Section 14. It describes the No. 7-C relay, superseding the No. 4-C, the Type X and the Model 3 relays. Prices are given.

POWER-PLANT ACCESSORIES. — The Schaeffer & Budenberg Mfg. Co., 23 Dey St., New York City. Paper; 6¼ × 9½ ins.; pp. 4; illustrated.

This is merely a "teaser," showing cuts of tachometers, gages, indicators, etc., shown in the catalog. No prices are given.

ERECTING GATES ELEVATORS.—The Allis-Chalmers Co., Milwaukee, Wis. Instruction Book No. 5004, superseding No. 115. Paper; 6 × 9½ ins.; pp. 12; illustrated.

As is indicated above, this is simply a book of directions for installing Gates elevators.

AUTOMATIC HOSE COUPLING.—Thos. H. Dallett Co., 23d and York Sts., Philadelphia. Bulletin No. 1007; paper; 8 × 11 ins.; pp. 4; illustrated.

Various sizes of this evidently rapid coupling are shown, with prices.

ELECTRIC CRANE CONTROLLERS.—The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Paper; 3¾ × 8 ins.; pp. 32; illustrated.

This small pamphlet outlines the main features which distinguish the Cutler-Hammer apparatus.

ELECTROLYSIS PREVENTION.—H. W. Johns-Manville Co., New York. 8-page folder, 3½ × 6¼ ins.; illustrated.

This circular describes asbestos paper covering treated with waterproofing material, which is designed to protect pipes against electrolysis. The paper is ¼ to ⅜-in. thick and is supplied in 3-ft. sections. Special sleeves are provided for sleeve couplings.

PAINT FOR METAL WORK.—Natural Carbon Paint Co., Freeport, Ill. Paper; circular; 5¾ × 14 ins.

This is a reprint of an article setting forth the advantages of "Mindura" paint for the protection of tanks, piping, structural steel work, and other metal exposed to atmospheric effects or to smoke, gases and fumes, or other causes of corrosion.

ELECTRICAL MEASURING INSTRUMENTS.—American Instrument Co., 1114 Chestnut St., Philadelphia, Pa. Paper; 6¼ × 9¼ ins.; pp. 56; illustrated.

This is a descriptive catalog (with prices) of a series of direct-current voltmeters and ammeters. These are of both the switchboard and portable types, and include new instruments for accurate laboratory measurements.

TOBIN BRONZE.—The Ansonia Brass & Copper Co., 99 John St., New York City. Paper; 4 × 7 ins.; pp. 34; illustrated.

In this small pamphlet results of tests for corrosion resistance, crushing, torsional, tensile and transverse strengths, and weights and directions for manipulation, are given.

MERCURY-VAPOR LAMPS.—Cooper Hewitt Electric Co., 220 West 29th St., New York City. Publication No. 14. Paper; 3¾ × 6½ ins.; pp. 24.

This handbook is a compilation of typical installations of Cooper Hewitt mercury-vapor lamps.

HYDRAULIC PUMPS.—The Watson-Stillman Co., New York City. Catalog No. 71. Paper; 6 × 9 ins.; pp. 140; illustrated.

This volume is composed of over 500 page sheets each devoted to some form or type of hydraulic pump, from a simple single plunger hand type to the multiple-cylinder, engine or motor driven.

CORLISS ENGINES.—Minneapolis Steel & Machinery Co., Minneapolis, Minn. Brochure No. 101. Paper; 6 × 9 ins.; pp. 40; illustrated.

This artistic trade publication contains illustrated descriptions of this concern's designs of Corliss standard heavy duty engines. Typical installations throughout the Western States are shown.

PROGRAM CLOCK.—H. H. Lyche & Co., Security Building, Chicago. Paper; circular; 5½ × 8½ ins.; illustrated.

This clock, with switchboard attachment, is designed to give signals or calls automatically at any desired time. It is adapted for schools, hotels and institutions having departments in which bell signals have to be given to notify employees of the time to stop and start work, etc.

CORE DRILLS.—The Cyclone Drill Co., Orrville, Ohio. Paper; 6 × 9 ins.; pp. 80; illustrated.

The use of "diamondite" for drilling soft formations, and chilled steel shot for hard formations, is explained herein. The booklet is very complete in descriptive matter relative to operation, installation, etc., and gives cost data for the two methods in various formations. This company recently began publishing "The Drill Hole," a monthly bulletin devoted to the interests of drill workers; Vol. I, No. 2, is the August number.

TURBINE PUMPS.—Tacony Iron Co., Land Title Bldg., Philadelphia, Pa. Catalog 3. Paper; 6 × 9 ins.; pp. 32; illustrated.

The advantages of turbine pumps are very broadly sketched in these leaflets, with directions for installation and operation. Numerous forms of turbine pumps as made by this firm are briefly described with curves of performance.

GRINDING AND SEPARATING SYSTEM.—The Raymond Brothers Impact Pulverizer Co., 143 Laflin St., Chicago. Paper; 5 × 6 ins.; pp. 14; illustrated.

"Making Air Make Money" is the title of this pamphlet. The Raymond system of grinding and separating, wherein variable air-blasts are used instead of screens or bolters for classifying, is fully described. The system is adapted to grinding lime, pigments, etc.

WHITE PORTLAND CEMENT.—The Art Portland Cement Co., Kimmell, Ind. Paper; 4 × 9 ins.; pp. 16; illustrated.

This company's "Parthenon" brand is a non-staining white Portland cement for architectural and decorative work, either in monolithic concrete or cast details. It is also said to have high waterproof qualities. Results of analyses and tests are given, with several testimonials.

HOISTING MACHINERY.—Parker Hoist & Machine Co., 971 N. Francisco Ave., Chicago, Ill. Paper; 5 × 6¾ ins.; pp. 88; illustrated.

This is a general catalog of hoisting engines, guyed and stiff-leg derricks, crane derricks (with horizontal booms), and hand hoists. Also shop and foundry jib cranes, locomotive and overhead traveling cranes, and trolley hoists. The other specialties include concrete mixers and 6-yd. concrete carts, together with such supplies as derrick fittings, chain and wire rope, pulley blocks, steel wheelbarrows, etc. A separate circular shows a gasoline engine hoisting equipment.

For other Proposal Advertisements see pages 55, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 98.

WHEELER AND GRADER WORK.

Chicago, Ill.

We have 100,000 cubic yards of fine wheeler and grader work near Chicago Heights, Ill., on Chicago Southern Ry. Co., which we will sublet to responsible parties with good team outfit. Will pay from 18 to 20 cts. per yard.

JACOB R. MUHLICK & CO.,
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CEMENT MAKING MACHINERY.

Los Angeles, Cal.

Notice is hereby given, inviting sealed bids for furnishing to the City of Los Angeles, California, the necessary machinery for the equipment of a Portland cement plant of a daily capacity of 1,000 barrels of manufactured cement, consisting of three rotary kilns, crushers, pulverizers, dryers, conveyors, elevators, cars, pulleys and shafting, silex mill linings and flint pebbles, in accordance with the specifications thereof on file in the office of the Board of Public Works of said City of Los Angeles. Reference is hereby made to said specifications for full details and description of said machinery.

All bids must be on forms furnished by the said Board of Public Works, and each bid must be accompanied by a check, certified by a responsible bank, payable to the order of the President of the Board, for an amount not less than five per cent. of the aggregate sum of the bid, or by a satisfactory bond for the said amount, and so payable, as a guarantee that the bidder will enter into the proposed contract, if the same is awarded to him.

All bids must be filed with said Board of Public Works, City Hall, at or before eleven o'clock A. M. of Monday, the seventh day of October, 1907.

Forms of proposal, contract and bonds, and copies of specifications will be furnished to prospective bidders by said Board of Public Works upon application to the Bureau of the Los Angeles Aqueduct, Union Trust Building, Los Angeles. No bid will be considered unless the same is accompanied by said certified check or bond, and is made in the prescribed form and manner.

The successful bidder shall, within ten days after the contract is awarded to him, enter into a written contract with the City of Los Angeles in the manner and form shown in the draft of contract furnished by the Board of Public Works, for furnishing the articles embraced in the proposal submitted by him and accepted by said Board, and enter into and deliver to the Secretary of said Board a bond in an amount which shall not be less than twenty [illegible] cent. of the aggregate of his proposal, cond[illegible]ned for the faithful performance of the [illegible]ntract, and executed by the contractor [illegible] by a responsible surety company, or b[illegible] two or more sufficient sureties, approved by [illegible]d Board.

Delivery of said articles sh[illegible] be f. o. b. cars at Contractor's shipping [illegible]int, which must be a point within the Uni[illegible] States.

Said Board of Public Work[illegible] reserves the right to reject any and all bid[illegible]

Dated this 3d of September, [illegible]

By order of the Board of Pu[illegible] Works of the City of Los Angeles.

HORACE B. FE[illegible]S,
Secretary of the Board of P[illegible]ic Works of the City of Los A[illegible]es.

Specifications are on file at [illegible] of Engineering News, 220 Broadway, [illegible]w York.
12-1t

ENGRAVING BON[illegible]S.

Los An[illegible]s, Cal.

Notice is hereby given, inviting [illegible]aled bids for furnishing to the City of L[illegible] Angeles, California, the following, to-wit:

Item 1. All steel engraved bo[illegible] and interest coupons, required by the [illegible]y of Los Angeles for issuing $23,000,000 [illegible]-works bonds of said City.

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All in accordance with the [illegible]pecifications thereof on file in the offi[illegible] of the Board of Public Works of said [illegible]y of Los Angeles. Reference is hereby made to said specifications for full details and description of said bonds.

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All bids must be filed with said Board of Public Works at or before eleven o'clock A. M. of Monday, the twenty-third day of September, 1907.

Forms of proposal, contract and bonds, and copies of specifications will be furnished to prospective bidders by said Board of Public Works upon application to the Bureau of the Los Angeles Aqueduct, Union Trust Building, Los Angeles. No bid will be considered unless the same is accompanied by said certified check or bond, and is made in the prescribed form and manner.

The successful bidder shall, within ten days after the contract is awarded to him, enter into a written contract with the City of Los Angeles in the manner and form shown in the draft of contract furnished by the Board of Public Works, for furnishing said bonds, and enter into and deliver to the Secretary of said Board a bond in an amount which shall not be less than twenty-five per cent. of the aggregate of his proposal, conditioned for the faithful performance of the contract, and executed by the contractor, and by a responsible surety company, or by two or more sufficient sureties, approved by said Board.

Said Board of Public Works reserves the right to reject any and all bids.

Dated this 3d of September, 1907.

By order of the Board of Public Works of the City of Los Angeles.

HORACE B. FERRIS,
Secretary of the Board of Public Works of the City of Los Angeles.

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